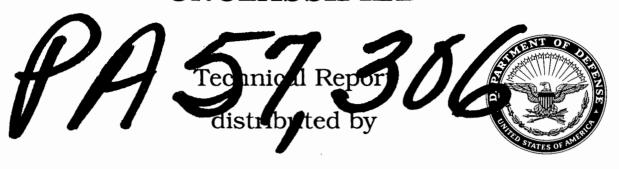
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# United States Testing Company, Inc.

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TASK 14

TEMPERATURE-HUMIDITY TESTS
SIGNAL CORPS ENGINEERING LABORATORIES
CONTRACT NO. DA-36-039 SC-63088
FILE NO. 218-PH-54-91 (3430)
JULY 1, 1954 - JUNE 30, 1957

By W. Maron / W.S.

W. Maron Project Engineer

Approved by L.J. Permi

L. J. Perenic Mgr., Electronics Div.

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### 1. FOREWORD:

In order to achieve standardization of electronic components among various countries it is necessary to perform tests from which specifications can ultimately be written. As there is considerable disparity between countries with regard to climate, laboratories, methods, and standards it was necessary to perform tests on similar components in various laboratories to determine to what degree correlation could be attained.

### 2. PURPOSE:

The purpose of this report is to present the results of three different <u>humidity</u> cycles on capacitors and resistors made by various manufacturers in several countries. The tests, measuring techniques, and instrumentation are described in detail.

### 3. SUMMARY:

This report presents information on components subjected to 10 days of humidity cycling in accordance with Method 106 of Specification MIL-STD-202, modified; 84 days of humidity cycling in accordance with test C, Clause 4.3. of IEC publication No. 68; and 84 days of humidity cycling of a modified IEC test. The detailed description of the tests, techniques, and instrumentation, together with the test results data will permit comparison with the findings of other laboratories.

Temperation effects

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# B. Equipment Used (cont'd).

Equipment	Manufacturer	Model	Serial No.
Precision Capacitor	General Radio Co.	722-D	4663
Standard Sig- nal Generator	General Radio Co.	1001-A	1883
Oscillator	General Radio Co.	1302-A	531
Amplifier and Null Detector	General Radio Co.	1231-В	1209
Tuned Circuit	General Radio Co.	1231-P2	1633
Megohm Bridge ·	General Radio Co.	544-B	1437
Oscilloscope	Dumont	274-A	410
Receiver	Hallicrafter	SX-28	HA11077
Power Supply, Regulated, DC	Oregon	D6	1085
VTVM-VOM	Triplett	631	-
Humidicator	Weston	8704	
Wheatstone Bridge	Leeds & Northrup	4725	1048361
Galvanometer	Brown Instrument Co.	104 WIG	1055
Humidity Chamber	American Instrument Company, Inc.	4-3475	K-9982A
Humidity Chamber	American Instrument Company, Inc.	4-3475	K-9982B
Standard Re- covery Condi- tion Cabinet	United States Testin	g	

### 4. DISCUSSION:

### A. Types of Components.

The following are the types of components that were tested and the country of the suppliers:

	Type of Component	Country of Supply
I	Sealed a) Paper capacitors (metal with glass) b) Paper capacitors (metal with neoprene)	USA UK
11	Partially sealed Paper capacitors (phenolic moulding)	USA
111	Coated  a) Ceramic capacitors (painted)  b) Ceramic capacitors (phenolic coating)  c) Paper capacitors (wax dipped)  d) Resistors (cracked carbon, lacquer coating)	Netherlands ) UK UK France

The rated values of these components are:

Paper capacitors:

Ia - .047 uF, 400 volts.

Ib - .05 uF, 500 volts.
II - .0068 uF, 500 volts.
IIIc - .05 uF, 500 volts.

Ceramic capacitors (IIIa and IIIb): 100 pF, 500 volts.

Resistors (IIId): 470,000 ohms, 1/2 watt.

### B. Equipment Used.

The following equipment and instruments were used for the tests:

Equipment Capacitance Bridge	Manufacturer General Radio Co.	<u>Model</u> 716-CS1	Serial No. 1754
Capacitance Bridge	General Radio Co.	716-C	1604

OF ESSERIES

Tappage 1

# B. Equipment Used (cont'd).

Equipment	Manufacturer	Mode1	Serial No.
Precision Capacitor	General Radio Co.	722-D	4663
Standard Sig- nal Generator	General Radio Co.	1001-A	1883
Oscillator	General Radio Co.	1302-A	531
Amplifier and Null Detector	General Radio Co.	1231-В	1209
Tuned Circuit	General Radio Co.	1231-P2	1633
Megohm Bridge	General Radio Co.	544-B	1437
Oscilloscope	Dumont	274-A	410
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Galvanometer	Brown Instrument Co.	104 WIG	1055
Humidity Chamber	American Instrument Company, Inc.	4-3475	<b>K-</b> 9982A
Humidity Chamber	American Instrument Company, Inc.	4-3475	K-9982B
Standard Re- covery Condi- tion Cabinet	United States Testin	ng	

### C. Test Conditions.

- 1. Test series A. In accordance with test C, clause 4.3 of IEC publication No. 68.
- a. In the chamber for this test it was possible to vary the temperature in any region where the components were placed, especially between  $35^{\circ}\text{C.}/2^{\circ}\text{C.}$  and  $25^{\circ}\text{C.}/2^{\circ}\text{C.}$
- b. The upper temperature was maintained for 12 hours and the lower temperature for not less than 5 hours, the complete cycle taking 24 hours.
- c. The relative humidity during the period of maintained elevated temperature was between 95 and 100 per cent.
- d. Figure  $\underline{1}$  in the appendix is a chart on which was recorded the conditions within the chamber for a representative 24-hour period.
- e. The components were subjected to this test for 84 days.

### 2. Test series C. Modified IEC test.

- a. In the chamber for this test it was possible to vary the temperature in any region where the components were placed, especially between  $40^{\circ}\text{C} \neq 2^{\circ}\text{C}$ . and  $30^{\circ}\text{C} \cdot \neq 2^{\circ}\text{C}$ .
- b. The upper temperature was maintained for 12 hours and the lower temperature for not less than 5 hours, the complete cycle taking 24 hours.
- c. The relative humidity during the period of maintained elevated temperature was between 95 and 100 per cent.
- d. Figure  $\underline{2}$  in the appendix is a chart on which was recorded the conditions within the chamber for a representative 24-hour period.
- e. The components were subjected to this test for 84 days.

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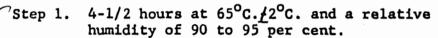
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### C. Test Conditions (cont'd)

3. Test series J. In accordance with Method 106 of MIL-STD-202, modified and line of the series J.

a. In the chamber for this test it was possible to vary the temperature in any region where the components were placed, especially between  $65^{\circ}$ C  $\frac{1}{2}$  2°C and  $25^{\circ}$ C  $\frac{1}{2}$  2°C.

b. The daily humidity cycle consisted of the following steps: \_ Whell ception is the ?



- Step 2. 2 hours cooling to 25°C. \( \frac{1}{2}5°C. \) and a relative humidity of 90 to 95 per cent.
- Step 3. 2-1/2 hours at 25°C/5°C. and a relative humidity of 90 to 95 per cent.
- Step 4. 4-1/2 hours at 65°C. 2°C. and a relative humidity of 90 to 95 per cent. The temperature was raised to this value as rapidly as possible.
- Step 5. 2 hours cooling to 25°C. \( \frac{1}{25}°C. \) and a relative humidity of 90 to 95 per cent.
- Step 6. 8-1/2 hours at 25°C. £5°C. and a relative humidity of 90 to 95 per cent.

c. Figure 3 in the appendix is a chart on which was recorded the conditions within the chamber for a representative 24-hour period. The document neglect the whomas

d. The components were subjected to this test for 10 days.

### D. Number of Components Tested.

The following are the number of each type component tested:

### D. Number of Components Tested (cont'd).

Test Series			Com	ponent			
	Ia	Ιb	II.	IIIa	IIIb	-IIIc	IIId
A	15	15	15	15	15	15	15
C	15	15	15	15	15	15	15
<b>j</b>	10	10	10	10	10	10	9

### E. Identification.

### 1. Sample identification.

Each component was provided with a numbered tag which remained legible during the whole test. For test series A the components were serially numbered from 31 through 45, for test series C from 46 through 60, and for test series J from 61 through 70. The physical appearance of each type component is illustrated in Fig. 4 of the appendix.

### 2. Data sheet identification.

The results of tests of each component type are contained on two data sheets (only one sheet for IIId). An example of the sheet designation is given below:

Sheet No. Ia/A/1, means:

Type of component: Ia = Paper capacitor, metal with glass seal.

Test series: A = In accordance with Test C, Clause 4.3. of IEC publication No. 68.

Serial number: First sheet giving capacitance (column A) and tangent of loss angle (column B).

NOTE: In order to facilitate the comparison of all results the sheets on which capacitance plus tangent of loss angle (or resistance) are given were numbered 1 and the sheets for insulation resistance were numbered 2.

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Section 1

### F. Measuring Methods.

- 1. The capacitance value and the tangent of loss angle of paper capacitors were measured at 1000 cycles per second. Special clips were used for attaching the capacitors to the measuring terminals of the bridge. The same polarity was always used.
- 2. The capacitance value and the tangent of loss angle of ceramic capacitors were measured at 990 kilocycles per second. The length and position of the leads were kept the same during all the measurements so as not to influence the results of the measurements. Special clips were used for attaching the capacitors to the measuring terminals of the bridge. All interconnecting leads were maintained as close to the original position as possible.
- 3. The insulation resistance between terminals was measured with full rated voltage. The voltage was applied at once through the internal resistance of the test apparatus. The capacitor was charged for 20 seconds and the test instrument was balanced at the end of an additional 10 seconds. To determine the insulation resistance between the terminals and the case the same procedure was followed, except that the charging time was only 10 seconds and the balancing time 5 seconds. When measuring the insulation resistance between terminals (T-T) of capacitors encased in metal a guard circuit was used. A schematic of the circuit, the special jig, and explanation are given in Fig. 5 of the appendix.
- 4. The resistance values of the resistors were measured with a DC voltage of 90 volts. The time of voltage application was kept to five seconds or less. During the few instances when the five second time limit was exceeded the resistor was allowed to cool off before the voltage was reapplied for making the measurement.
- 5. The same instruments were used for making the measurements during the entire test period. This obviated the possibility of slight differences between instruments from influencing the measurements. The instruments were calibrated periodiodically during the test period to assure accuracy of measurements.

### F. Measuring Methods (cont'd).

- 6. Whenever the relative humidity in the laboratory exceeded 75 per cent, measurements were made in an air conditioned room. In some instances certain measuring equipment was already located in air conditioned rooms. In such instances all measurements were performed in these rooms, regardless of the relative humidity in the laboratory.
- 7. The temperature and relative humidity at each measurement time are given on the data sheets.

# G. Measurements Before, During, and After the Temperature Humidity cycle.

- 1. Intervals of measurements.
- a. The components were inserted and removed from the temperature and humidity chamber and measured at the intervals specified in Figures 6 and 7 in the appendix.
- b. For test series A and C the components were removed from the chamber 7 to 8 hours after the heat was switched off. After removal from the chamber the components were then exposed for one hour to the atmospheric conditions for recovery.
- c. The atmospheric conditions for recovery were maintained as follows:

Temperature: 20°C. £2°C. Relative humidity: 75 per cent £ 2 per cent

These conditions were achieved by constructing a cubical box with sides 600 millimeters long. The floor of the box was covered with a stainless steel tray containing sodium chloride (not common salt), which was occasionally sprinkled with water. The surface of the sodium chloride was kept moist, and care was taken that it was not flooded with water. The components to be conditioned were placed on a shelf half-way up the box. Air was circulated by means of a small fan over the tray, up through holes cut at two corners of the shelf, over the samples and down through holes at the opposite corners of the shelf. The motor of the fan was placed on the outside of the box to prevent heat from raising the temperature within the box. The relative humidity

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G. Measurements Before, During and After the Temperature and Humidity cycle (cont'd).

was measured by wet-and-dry bulb thermometers. The box was kept in an area in which the ambient temperature was maintained at approximately  $20^{\circ}$ C. Figures 8 and 9 in the appendix are interior and exterior views of the box.

### 2. Parameters measured.

- a. Initial measurements were made on each type of component prior to the start of the test.
- b. The measurements consisted of measuring capacitance, tangent of loss angle, and terminal-to-terminal (T-T) insulation resistance. Capacitors encased in metal were also measured for insulation resistance from terminals-to-case (T-C). Resistors were measured for resistance only.
- c. The measurements made at each scheduled removal from the chamber were the same as in b, above.
- d. The final measurements for each type of component were the same as in b, above.
- e. The only exception to c, above, was in test series J. Each component in this test series was measured after three 24-hour cycles. The components were removed from the chamber and measured as rapidly as possible to determine the value of insulation resistance with conditions as close as possible to those in the chamber. Droplets of water were not shaken off nor were the samples placed in the chamber in which atmospheric conditions for recovery were maintained as described in paragraph G-1-c.

### H. Identification of Temperature-Humidity Chambers.

- 1. As test series A and J were started simultaneously, and test series A was still in progress when test series C was started (at the conclusion of test series J) it was not feasible to perform all tests in the same temperature-humidity chamber.
- 2. The temperature-humidity chambers used for the tests were made by the American Instrument Company, Inc., Model 4-3475,

### H. Identification of Temperature-Humidity Chambers (cont'd).

with Taylor No. 145RR program controllers. These chambers have a temperature range of 4.44°C. to 71°C. and a humidity range of 10 to over 95 per cent. The dimensions of the working space within the test chambers are 1117 mm. by 990 mm. by 482 mm.

- 3. Figures  $\underline{1}$ ,  $\underline{2}$ , and  $\underline{3}$  in the appendix are charts on which were recorded the atmospheric conditions within the chambers for a representative 24-hour period during test series A, C. and J.
- 4. Test series A components were in temperature-hum-idity chamber Serial No. K9982A, while test series C and J were in temperature-humidity chamber Serial No. K-9982B (not simultaneously).
- 5. The chambers were last calibrated on February 16, 1956. The interval between calibration is nominally six months.

### I. Format for Presentation of Measurement Results.

- 1. All results were entered on data sheets as described in paragraph E-2.
- 2. All initial measurement values were given in actual measured values.
- 3. All subsequent measurement results, including final measurements, were given as described below.
- a. For components bearing code Ia and Ib the per cent change of the capacitance and tangent of loss angle from the initial values were given. The insulation resistance was given in actual values.
- b. For components bearing code II and IIIc per cent change of the capacitance, tangent of loss angle, and insulation resistance (T-T) from the initial values were given.

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### I. Format for Presentation of Measurement Results (cont'd).

- c. For components bearing code IIIa and IIIb the per cent change of the capacitance and insulation resistance (T-T) from the initial values were given. The tangent of the loss angle was given in actual values.
- d. For components bearing code IIId the change in resistance was given as the per cent change from the initial values.

### J. Removal from Test.

- 1. Components bearing code Ia, Ib, II, and IIIc were removed from test when the insulation resistance (T-T) dropped below 10 megohms.
- 2. Components bearing code IIIa and IIIb were removed from test when the insulation resistance (T-T) dropped below 100 megohms.
- 3. Components bearing code IIId were removed from test when the component became open-circuited.

### K. Details of changes in schedule and other occurrences.

- 1. All test series started and finished on schedule.
- 2. Components bearing code Ib/A and scheduled for measurements on May 30, 1956 and July 4, 1956 (in addition to other dates) were instead measured on May 29, 1956 and July 5, 1956. May 30th and July 4th were legal holidays.
- 3. Components bearing code Ib/J were measured after the fifth 24-hour cycle, instead of after the third 24-hour cycle. The third cycle occurred on a Saturday.
- 4. Components bearing code II/J were measured after the fourth 24-hour cycle, instead of after the third 24-hour cycle. The third cycle occurred on a Sunday. Component II/J/68 had traces of oil on the body and was probably the result of a leak in the seal. This was found during measurements after the fourth cycle. It seemed to have no effect on the component surviving test series J.

### K. Details of Changes in Schedule and Other Occurrences (cont'd).

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- 5. Throughout the entire test period the insulation resistance (T-T) of components bearing code Ia/A were erratic. The indicating galvanometer fluctuated rapidly and many times the insulation resistance apparently was beyond the infinity mark of the test instrument. The fault was not in the instrument as other capacitors that were measured immediately after these occurrences on the same instrument were stable. Measurements were made with and without the guard circuit with similar erratic results.
- 6. After one week in the temperature-humidity chamber nine of the fifteen components bearing code Ib/A had their metal cases tarnished from five to thirty per cent (area). At the end of the second week the remainder of the cases were tarnished approximately the same amount. At the end of the test period all cases were tarnished 80 to 100 per cent (area).
- 7. Component IIIa/A/36 had one end broken off, beyond the wire lead, at the start of the test. Component IIIa/A/37 had a chip out of the paint at the start. These flaws apparently had no effect on the survival of the components.
- 8. After the third week component IIId/A/36 developed a loose lead. This apparently had no effect on the component as measurements during the remainder of the scheduled test period showed normal behaviour as compared to the other components of the same type.

### 5. RESULTS:

The results of the tests are presented on data sheets in the appendix.

### 6. REFERENCES:

- 1. Publication No. 68 (First Edition) of the International Electrotechnical Commission.
- 2. Publication 40(W-G)1 of the International Electrotechnical Commission, Technical Committee No. 40: Electronic Components, Working Group: Revision Publication No. 68.

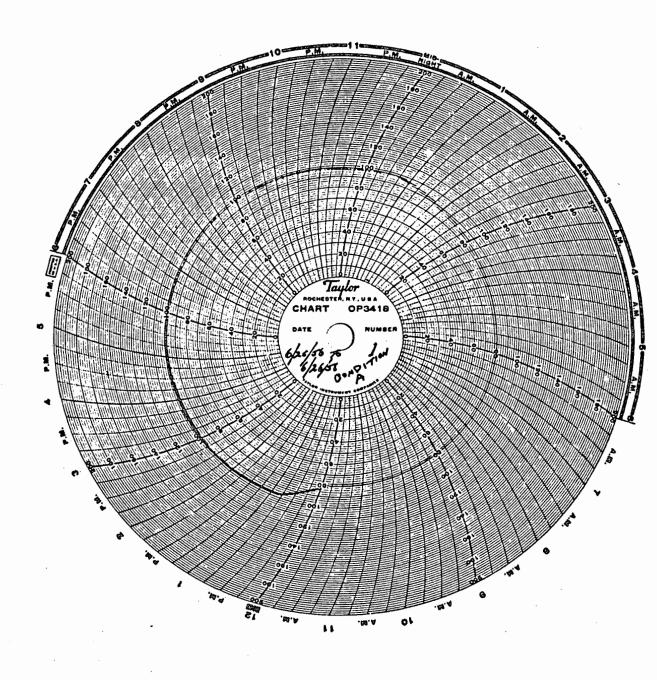
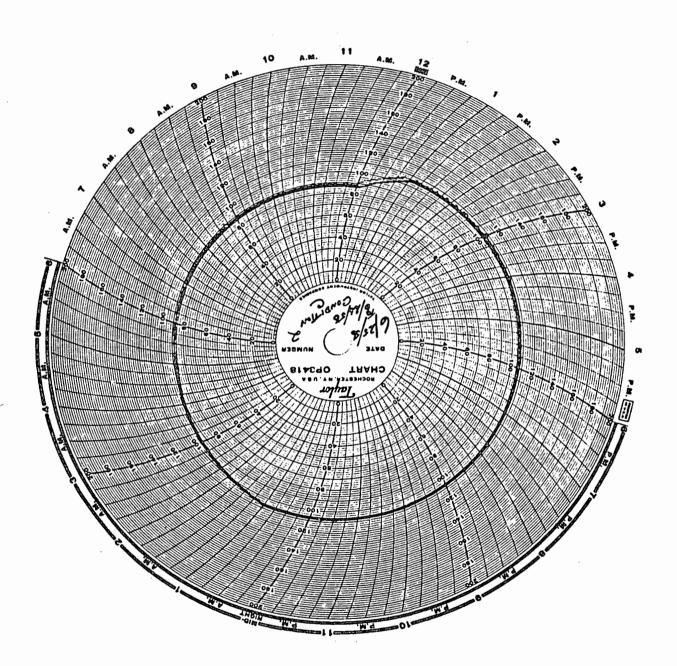


Figure 1. Recorded chart of conditions within humidity chamber during test series A for 24-hour period.



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Figure 2. Recorded chart of conditions within humidity chamber during test series C for 24-period.

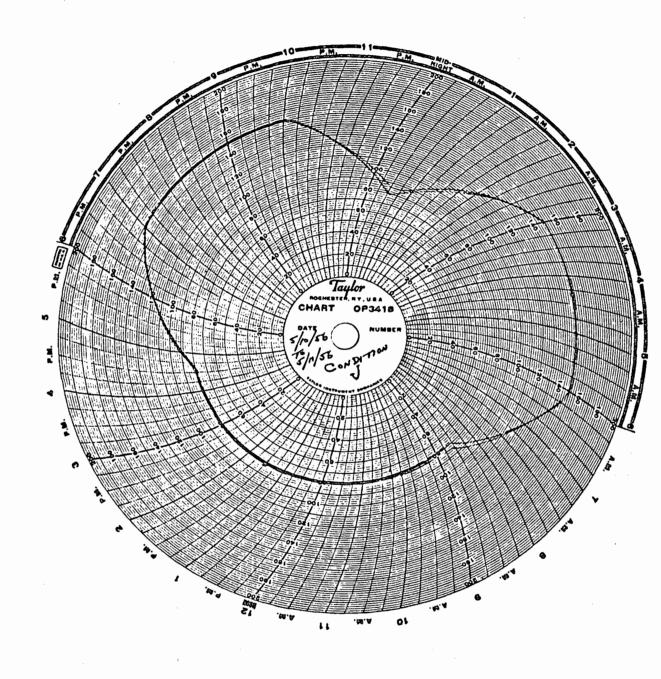


Figure 3. Recorded chart of conditions within humidity chamber during test series C for 24-hour period.

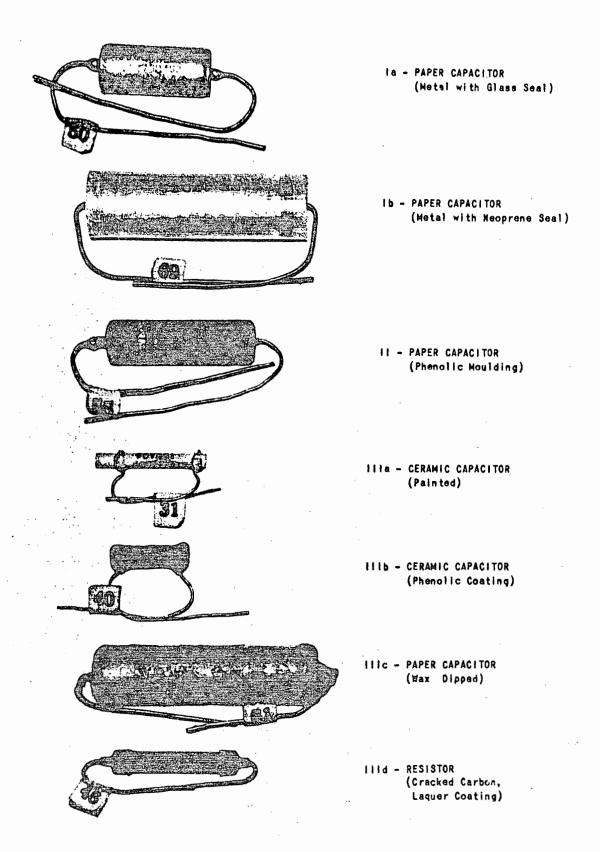
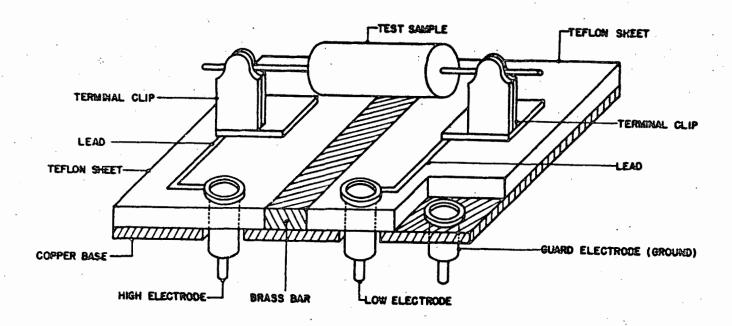
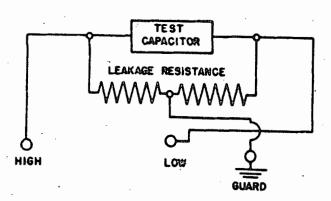


Fig re 4. Physical appearance of components



### GUARDED JIG

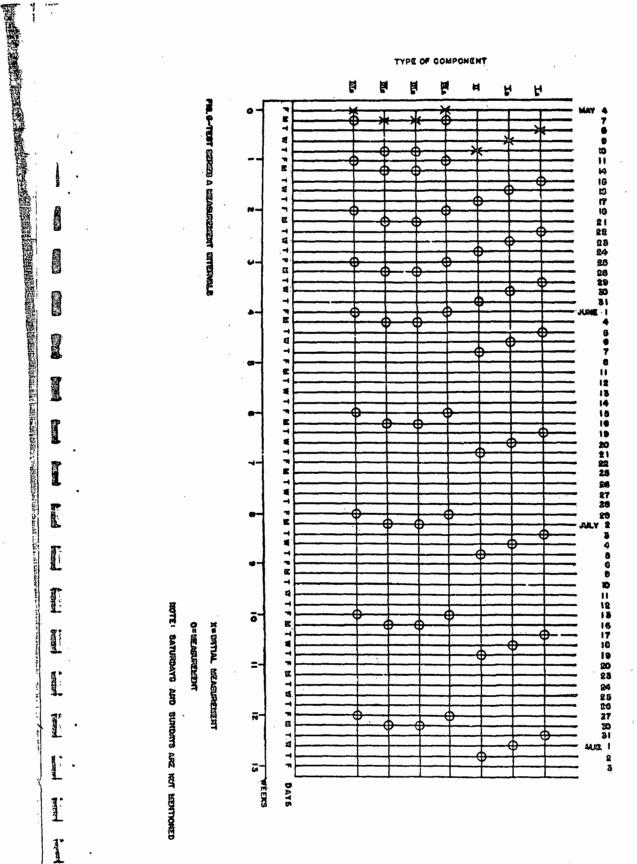


### DESCRIPTION OF OPERATION

The two terminal clips are mounted on individual blocks of teflon which are secured to a copper base plate. A brass bar separates these teflon blocks and is bolted to the base plate. Three plugs are positioned to fit the test jacks on the megoha bridge. The high and low electrodes are connected by heavy copper leads to their respective terminal clips which are insulated from the base plate. The guard electrode is secured to the base plate and is grounded.

The test sample is placed in the terminal clips and rated d.c. voltage is applied across the capacitor terminals Since the two terminals are separated by the grounded brass bar, there is no possibility for any leakage resistance between the high and low test terminals and the requiremt insulation resistance measurement is that actually existing between the two terminals of the capacitor.

Figure 5. Jig for Guarded I.R. Measurements



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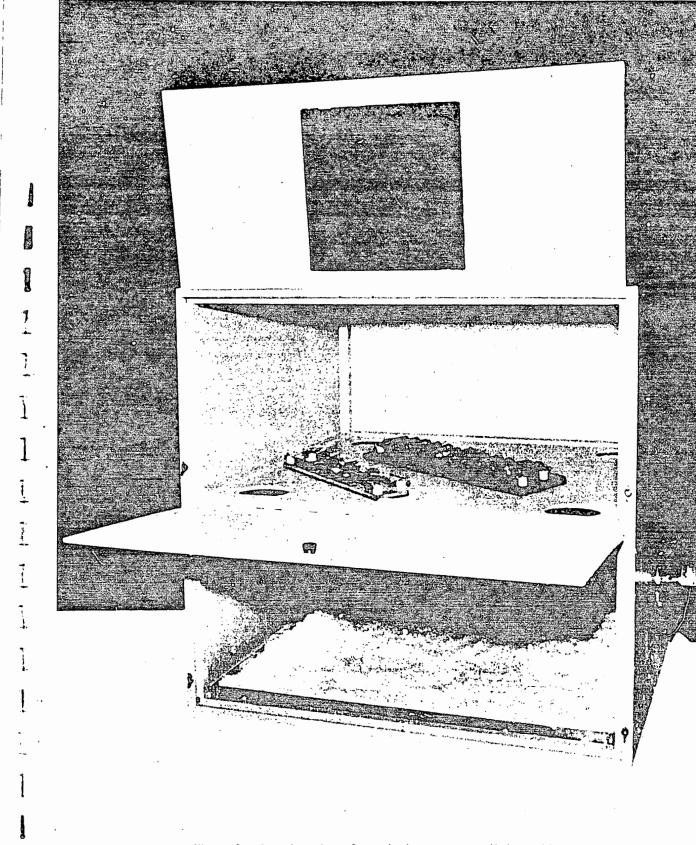


Figure 8. Interior view of standard recovery condition cabinet

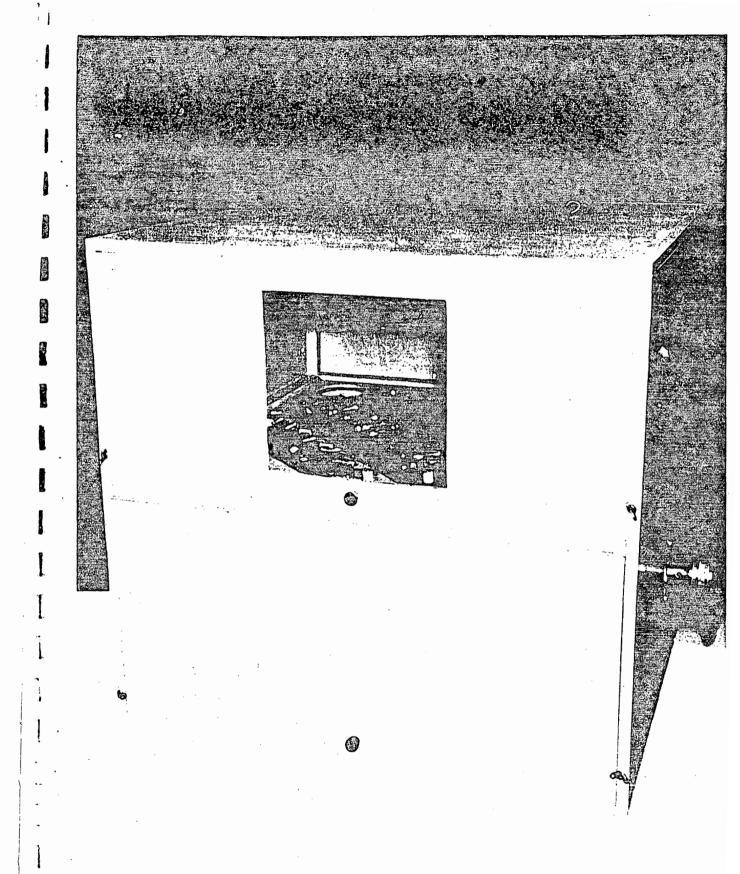


Figure 9. Exterior view of standard recovery condition cabinet

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2	48.4	46	3.50	.19	-2.86	<b>.2</b> 9	-2.67	.21	2.86	.33	5.43	.23	-2.00		-8.29	.29	0	.29	1.71		
3			4.50	.28	-11.56	.39	-14.44	.28	-8.67	.42	1555	.37	-14.00		- 18,89	.44	- H.22	.37	-9.33		
4			3.45	.18	.29	.27	-3.77	.21	3.77	.31	-6.38		-1.74		-7.25	.29	-2.03	.31	-1.16	L	-
5		$\rightarrow$	3.40	.20	1.47	.31	-1.18	.23	5 <b>.2</b> 9	.62	-4.41	.27	.29	.37	-6.18	.31	29	.31	6.18	ļ	-
5	43.0	<u>C3</u>	3.92	.30	.76	.44	-3.06	.35	2.81	.93	-5.10		76	.51	-6.38	.39	51	.39	1.02		<del> </del>
57			3,42	.23	2.05	.31	-3.51	.27	1,17	.20	-5.26		-2.63	.39	-9.36	.31	-3.22	.31	4.68	<u> </u>	↓
8		_	3.35	.16	4.18	.27	-1.19	.19	4,78	.25	-2.39	.21	-4.29	.31	-3.58	.28	1.49	.29	5.97	<u> </u>	<del> </del>
9			4.45	.35	-1326	.35	-1691	.29	-7,86	.35	13.48		- 13.03		-15,96	.37	-9.44	.38	-11, 11	<u> </u>	<del> </del>
0	48.	97	3,40	. 14	2.35	.24	-2.65	.53	5.88	.24	-3.82		59	.33	-6.47	.27	59	.25	3.53		<del> </del>
4			3,35	-9.80		.28	U	.22	5.97	.25	-1.49	.22	.49	.34	-7.76	.24	2.99	.28	6.27		—
12	48.	63	3.44	.21	3.20	.29	-1.16	.23	3,49	.33	-4.97		.74	.35	-9,01	.31	-2,33	.28	4.65	<u> </u>	
13	49.	1 !	3.30	.20	2.73	.30	-1.82	.24	3.64	.31	-2.12		-1.89		-5.45	.34	-1.82	.33	4.85		
14	43.	47	4.10	.28	1.71	.41	-2.44	.30	3.66	.48	-5.61	.35	-1.95		-9,27	.41	-1.46		4.39		↓
5	49.	28	3,30	.26	3.03	.49	-1.21	.28	2,42	.30	-3.03	.28	-4.55	3.41	-7.58	.32	91	.30	4,24		↓
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35	210	600		<b>\$</b> 1000	120	1000	75	600	80	700	140	600	150	600	190	500	250	600		
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37	110	6.50	500	¥1000	80	1000	51	500	50	600	180	450	180	400	200	400	190	400		
38	150	600	60	1000	85	400	300	800	74	500	57	500	65	400	90	400	liO	300		
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41	120	800	200	₩1000	170	700	200	900	130	600	70	400	64	400	150	500	150	500		
42	190	900	100	1 <b>0</b> 00	80	700	190	000	120	800	85	500	70	400	180	500	180	600		J
43	100	900	100	1000	95	1000	200	600	46	500	65	500	70	500	150	500	170	500	L	
44	200	<b>6</b> 50	180	1000	100	1000	90	700	70	700	50	400	100	600	110	600	200	600	L	
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	Type of	Component	. PAP	ER CAP	ACITOR	S TME	TAL WI	TH NEO	PRENE)			C	pacitano	o + Tanger					Bookste	•
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l	dete: 5			/16/56								6/20/56			dete: 7		deto: 87		date:	
1	T:2190	RH:51 %		RH: 55%	T:22%			Rн:56 %				RH: 63%							7: °C	RH:
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31		3.96	.24	3.53	15	-3.50	.30	8.50	.10	-1.50	.05	-3.50	.06	-2.30	.02	-1.30	02	-1.80		<u> </u>
32		3.90	14	1.90	1.50	-5.12 -5.30	.30	5.40		-3.30	.04	-5.60	0	-4.60		-3.80	22	-5.60		<u> </u>
33 34		3.73	.33	4.32	.25	-4.32	.75	3.20 6.10	.52 2.31	-2.40 80	.02	-6.10 -5.80	02	-6.10 -5.30	22	-6.10 -5.60	04 38	-6.60		├
35	52.56		.32	-0.20	.27	-3.30	.32	5.80	12.31	20	.08	-4.10	04	-4.70		-1.00	19	-7.80 -1.60	<b></b>	-
36			.04	-4.51	0	-4.80	.08	3.00		-2.50	13	-5.80	17	-4.80		-4.00	35	-7.30		-
37		<del></del>	.22	-1.03	1.20	-5.20	.30	3.63	.20	-1.00	.04	-5.40	0	-6.50	0	-2.30	-, 58	-6.20		-
38	59.06	4.24	.17	-5.70	.20	-2.35	.33	4.00	.23	70	.13	-5.70	.05	-3.30	Ö	-2.30	- 10	-7.50		
39	53.62	6.70	.58	-1.50	.50	-5.22	.60	-1.04	.13	-12.00	.31	-7.80	.26	-7.20	.09	-9.70	0	-1040		
40	47.97	4.00	.38	2.50	.30	-2.75	.35	2,50	,33	0	.19	-4.50	.C8	-4.70	.08	0	10	4.00		1
41	45.62	3.90	.20	12.80	.10	-5,12	.10	-1,50	.04	-2,10	13	-5,60	13	-4.60	19	-5.10	26	-6.10		
42			.24	-3.01	.21	-7.19	.24_	2,80		-4.00	.24	-7.40	.03	-9,50	.07	-2.30	.19	-4,40		
43			1.17	1.01	.10	-3.30	.06	-,25	<del></del>	<b>-2.3</b> 0	06	-3.00	17	-4.80	.19	-3.30	25	-4.30		
44	45.48		.22	.25	.07	-5.31	.07	2,00		-4.00	06	-4.60	15	-6.30		-3.80		-5.10		↓
45	49.30	4.10	.16	-1.21	30	-7.31	39	<del>-3,90</del>	39	-5,10	<del>47</del>	-8.00	49	-7,30	53	-6.80	-,63	-9 <b>.5</b> 0	<u> </u>	↓
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IEC 40 (WG) 1: Appendix IV International Electrotechnical Commission Sheet No. 1b/A/2 Technical Committee No. 40 Electronic Components Working-group; Revision Publication No. 68 TEST REPORT **Humidity test for Components** U.S.A. UNITED STATES TESTING CO. INC. Country: Test Laboratory: PAPER CAPACITORS (METAL WITH NECPRENE) M Insulation Resistance Type of Component: lat meas 2nd mess Initial meas 3rd mees 4th meas 5th meas 8th meas date 5/9/06 date: 5/16/56 | date:5/23/56 date 5/29/55 date: 6/6/56 date: 6/20/56 date: 7/5/56 date: 7/18/56 date: 8/1/56 date: T: 2 PC RH5 | 7/1725 PC RH: 55% | T: 22 PC RH: 50% | T: 25 PC RH: 56 % | T: 24 PC RH: 51 % T:25 % RH63 % T: 24 % RH62% T24 9C RH: 51% T:29 9C RH: 69% OC RH: В В В 16.5 3.) 6 0 7.6 .85 F 00. 2.2 .21 .073 1.4 500. 3.6 6 1 50C 4 GO 9.5 B 2 ; 45 50 0 A = INSULATION RES. ; Unit: MEGOHMS X 102 T = ambient temperature in laboratory. · Delete if not applicable. : Unit: MEGOHMS X 103 B = INSULATION RES RH= relative humidity in laboratory.

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									Humid	ty test for	Compone	nts								
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												RH:56 %								C R
	A	В	A 96	В 2	A %		A É	B &	A5	BÉ	A %	B %	A %	B	A %		A %	B %	A	T
2, [	6.835	3.45	.23	-4.05	09	8.69	.23	-8.11	13	-2.90		-4.00	09	- 90	.02	-4.35	- 18	2.61	<b> </b>	十
_	6.514		.26			8.00	.20	-8.82		-1.20		-4.40		1.50	05	-5.00	25	0.59		1
33	7,969		.21	-2.00	25	00.8	.13	-5.60	0	-2.00		0.20		2.70	18	-3.79	- 46	2,68		丁
34	5.564	3,41	.18	-3.22	15	8.21	.08	-8,50	04	-3.00		-1.50	- 33	- 60	29	-3.52	49	0.59		$\Box$
35	6.390	3.33	.14	-1.50	14	8.40	89	-7.90		-2.40		-3.60	30	1.50	- 25	-3.90	27_	2.10		1
<u>36</u>	5.576	3.38		<del></del>		7.10	.12	-7,70	<del></del>	-3.00		-0.90	21_	3.20	08	-4.14	28	2.07	L	4
$\frac{37}{36}$	5.764	3.40		-2,70		6.00	13	-6.50		-3.20		-0.30	10	0	04	-3.23	25_	2.94		4
38	6.507	3.39	.09			4-12	.09	<u>-8.30</u>	<del></del>	<u>-5,30</u>		0.30		1.20	18	-4.13	46	2.65		+
39 40	€ 724	3.28		-3,35 -1,50		6,70 7,10	-07	-8,00	- 03	-2.40	15	-2,70 0,30	- 30	90	- 44	-3.66	39	1.83		+
41	5.514		.15	1.22	17	10,12	1	<b>-8.00</b>	-,02 -7,80			-0.90	- <u>.26</u>	1.20	- 17	-3.55	38	0.89	<del> </del>	+
	6.509 6.957	3.26 3.40				6.50	.14	-7.40	03	90		-1.20	= <u>.40</u>	30	06	-1.84 -5.88	- 24 - 27	3.68 1.47	<del>                                     </del>	+
	6.958					3.41	.04	-9.30	01	4.10		15.30	.01	-1.40	.23	-3.48	09	7.25	<del>                                     </del>	+
	7.522		.27	-2.62		7.40	.21	-7.00	.08	-1.70		-1.90		2.40	.10	-4.29	F 11	3.34	<del> </del>	+
	7.278		.18	500	0	6.34	.30	-6.10	.29	-2.80		-2.00	.16	-20	.34	-3.55	16	1.52		十
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31	300		-95.8		-97.0		-98.7		-98.6		-99.3		-99.5		-99,7		-99.7			
32	500		-97.0		-98,7		-99.3		-99.1		-99.6		-99.5		-99.8		-99.8			<u> </u>
33	500		-97.1		-98.6		-99.5		-99.4		-99.6		-99.7		-99.9		-99.9			
34	200	-	-92.5		-95.1		-98.3		-97.6		-98.4 -99.5	<u> </u>	-99.6		-99.7		-99.7			<b></b>
35	500.		-97.4 -98.9		-98.7		-99.4		-99.3 -99.6		-99.8		-99.7 -99.8		-99.8		-99.8 -99.9			
36	1000		-96.3		-99.2		-99.7		-99.0	<del> </del> -	-99.8		-99.8 -99.5		-99.9		-99.9		<b> </b>	
37	300	<del> </del> -	-90.5		-98.0		-99.1		-99.3	ļ	-99.7		-99.7		-99.8				<u> </u>	
38	500	<del> </del> -	-97.8		-98_0		<u>-98.8</u>		-99.1		-99.4	<del> </del>	-99.7 -99.5		-97.9 -99.8		-99.9 -99.8			<b></b>
39	400	ļ	-96.2		-98.3		-99.0		-99.1	-	-99.5		-99.5 - <b>9</b> 9.7		-99.8 -99.8		-99.8			<u> </u>
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44	400	<del> </del>	-33.3		-97.7 0		-33.3		-33.3	<del></del>	-16.7	<del> </del>	-43.3		-43.3		-33.3			<del> </del>
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International Electrotechnical Commission
Technical Committee No. 40 Electronic Commenta
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										TEST RE	PORT Componer	ts								-
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	99.8		1.30	0.63	1.60	0.82		0.98	1.70			1.81		1.81	1.87		2,70	2.59	3.01	3.07
33	101.7		1.17	0.77	2.26		1.86	1.21	1.67	1.32	1.37	1.37				1.95	2.06	2.35	2.26	2.84
34		0.15	1.64	6.07	3,32					15.90					23.61	35, 05	RFT-	-LOW	IR .	3 70
35	102.1	0.17	1.46	1.06	1.37		1.56	1.43	1.37	1.13	1.56	1.98			2.45	2.84	2,94	3,68	3,13	4.32
36		0.11	0.60	0.41	0.80		0.90	0.72	1.00	0.90	1.10	0.79		0.69	0.81	1.83	2.11	2,52	2.01	2.85
37		0.07	0.80	0.63	0.80		0.90	0.66	0.90	0.59	1.00				22.10	0.79	1.00	.88	.91	1.01
38		.0,20	2.30	4.07	3.47	5.58		7.00		10.38	0.30	0.18			0.30	33 <u>.35</u> 0.24	RFT-	LOW	1R 0.40	0.65
<u>39</u>	99.1	0.07	0.50	0.37	0.60		0.60	0.38	0,40	0.24				2.22			0.50	0.41		
40	100.8		1.58	0.94	1-19	0.83		1,10	1,78	1.47	1.78	1.84			2.58	2.96	2.97	3.91	2.98	
41	101.7		0.78	0.49	0.98		1.08	0.85	1,08	1.08		1.60		1.28	1.40	2.37	2.36	2.61	2.55	3,32
42	101.3		0.59	0.47	1-08	0.56		0.84	98	0.76	1,18				<del></del>	1.41	1.58	1.66	1.77	2.13
43		0,12	0.70	1.07	0.70		1.50	1.74	1.90	2.33	2.30	3.10		3.72	1.93	4.19	3,61	5.23	3.81	6,01
44	103.4		0.58	0.58	0.71		0.87	0.83	0.96	1.08	0.40	0.30		0.29	0.40	2.14	2.24	2.69	2.23	3,09
45	99.4	0.06	0.40	0.16	0.40	0,37	0.40	0,35	0,40	0.18	0.40	0.30	0.50	0.29	0.40	0.35	0.60	0.59	0.60	0.74
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IBC 40 (WG) 1: Appendix IV

International Electrotechnical Commission Technical Committee No. 40 Electronic Components Working-group; Revision Publication No. 68 Sheet No. 1113/A/2

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52	1000		-97.0		-99.6		-95.8		-89.0		-95,1		-94.0		-97.9		-99.6		-99.7	
33	750		-89.3		-99.7		-98.6		-93.3		-95,2		-86.6		-88.7		-98.3		-99.9	
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ш	1000		-99.4		-99.7		-98.0		-92.4		-95.0		-70.0		-70.0		-81.0		-86.0	
12	750		-94.4		-99.8		-98.0		-97,4		-95.4		-89.5		-85.3		-95.3		-97,2	
13	750		-98.7		-99.8		-99.4		-99.4		-99.6		-99.1		-99.2		-99.3		-99.6	
14	1000		-70.0		-88.0		-70.0		-10.0		-89.0		-70.0		-70.0		-75.0		-85.0	
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32	95.4	.16	.43	.01	.42	.04	.52	.09	.42	.14	.21	.04	0	.10	.52	.10	.42	.22	.21	.48
33	104.0	.16	77	.02	.38	.01	38	.11	.38	.34	.19	.04	.19	.15	.29	.17	.38	.16	.10	.38
34	102.6	.17	.20	.03	.49	.02	2.34	.15	.49	.36	.10	.09	.10	.15	.19	.10	.58	.12	.10	.40
35	103.9	.18	-36	.01	.29	.01	.48	.04	.39	.09	.29	.03	,19	.08	.29	.08	.48	.08	0	.33
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38	97.8	.15	-51	.04	.61	.04	.51	.06	.51	.29	0	.04	10	.07	.31	.07	.41	.05	0	.29
39	102.4	.20	.39	.03	,39	.01	.49	-11	.39	.16	_20	.10	0	44	.29	. 15	.29	13	,20	.33
40	96.4	. 16	.10	.04	.52	.17	.72	.39	.94	1.36	1.25	1.83	31	<u>.9i</u>	62	.85	83	1.30	.73	.50
41	97.8	.15	.10	.02	.31	.02	.41	_,06	.31	.04	.10	.01	10	.07	31	15	.20	,23	1.10	.41
42	98.5	-16	10	.04	.10	.01	.31	-11	,20	.15	0	09	10	.08	30	10	30	. 14	0	,42
43	105.9	.19	.38	.03	.47	.03	.47	.09	.47	.10	09	.06	.09	.09	28	.07	.28	.13	<u> </u>	.32
44	103.3	.13	.29	.01	.29	.04	.29	.08 .09	.29	-11	10	.07	09	.09	.29	17	.48	.30	.20	.57
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3	500		Ö		-50.0		-78.0		-84.0		-86.0		-86.6		-91.6		-97.4		-98.9	<b> </b>
-	400		0	<del></del>	-25.0		-70.0		-83.8		-84.8		-83.0		-86.3		91.3		-97.8	
5	300		33.3		33.3		-16.6		-36.6		-50.0		-66.6		-73.3		-84.7		-95.8	
6	400		25.0		-25.0		-50.0		-57.5		-75.0		-76.2		-80.5		-99.8		-99.9	
7	500		-20.0		-87.2		-93.4		-93.8		-93.6		-93.6		-96.4		-99.B		-99.9	
8	500		-20.0		0		-20.0		-40.0		-40.0		-60.0		-93.0		-92.4		-97.9	
9	300		66.6		-16.6		-68.3		-81.6		-82.7		-83.7		-87.0		-99.0		-99.4	
Ü	400		-25.0		-55.0		-89.0		-92.5		-95.0		-91.0		-94.3		-99.5		-99.9	
	500		0		-20.0		-40.0		-60.0		-68.0		-64_0		-86.6		-99.4	1	-99.6	
2	500		-20.0		-60.0		-80.0		-87.0		-91-2		-89.0		-92.0		-96.0	·	-99.2	
3	300		33.3		0		-16.6		-40.0		-66.6		-68.0		-66.6		-67.6		-70.0	
4	500		-20.0		-50.0		-68.0		-83.2		-88.2		-89.4		-99.3		-99.9		-99.9	
5	500		0		-20.0		-40.0		-62.0		-78.0		-80.0		-86.4		-99.0		-98.9	
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										TEST RE	PORT									
										ty test for		nts								
	Test Labo	matory:	UN	TED 5	TATES	TESTIN	E CO.	INC.								Country:	0.5	5.A.		
	Type of C	omponent:	PAF	PER CA	PACITO	RS (WA	X DIP	PED.)				C.	pecitance	+ Tanger	t of Loss	Angle; 🤂			- O	- 100 P
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31		5.50	.17	2.18	.69	-3.27		14.18		54.54	2,77	189.09		83818		VED F			<del> </del>	<del> </del>
32		5.42	.08	6.09	.14	55	.20	9.59	<del></del>	20.00	.62	22,32		344 64		VED F			<del> </del>	↓
33		5.10	. 14	2.16	.12	0	.25	9.41		17.65		58,23		303,92		VED F			12.00	260
34	50.78	5.10	.16	2.55	.16	.39	.20	6.27	.16		.24	.78	19.69	5.68	.51	4.90 DVED F			3.89	K00*0
35		5.40	.20	3.70	.28	-1.85	.39	13,70		28,52	2.01		201.68					SHORTE	<del></del>	├
36		5.22	.20	3.64	.28	.77 94		25.86		66.28		4.91						OVED F		T
37		5.30 5.35	.59	1.49	.59	-2.43	.67	6.22	69		1.30	81.31	12.03			VED F			DM IL	1'
<u>39</u>	49.85	5.30	.42	6.04	.72	5.85		B2.45	38	91013.2					D FRO				<del> </del>	<del> </del>
<u>40</u>	111111		.14	2.00	.08	-2.55	.14	9.09	12.0	7 27	19	.36	.29		1 . 74	16.36			5 RFT	1
41		5.15	.16	1.36	.20	97	.24	13.79	13	16.50	.78	51.46		144.66		OVED F		<del></del>	1	
12	49.12	5 21	.37	0.77	.43	-1.73	.61	6.52	.79		1.20	19.38	3.01	107,29		DVED F	_		1	†
43	49.63	5.15	.40	3.88	46	.39	.56	8.35		15.14	1.89	19.22		14854		OVED F			1	1
44		5.00	13	4.00	- 04	2.00	.15	4.60	.36			58.00	2.26	190.00		VED F			1	1
	49.43	4.80	.28	3.33	.22	2.08		22.91		76.04		70,83		702.Œ		VED F			1	<b>†</b>
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										TEST RE		nto.								
7	Test Le	boretory:	UNI	TED ST	ATES T	ESTIN	CO.	INC.								Country:	U.S./	A.		
7	Type of	Component	PAP	ER CAP	PACTTON	S (WA)	OTPPI	נס					New March			-tophagil	no de Caracia	Insulation	Resisten	ce •
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1	т:22°	с вн: 52%															₹22 ℃		7: °C	RH:
$\perp$	_ A	В	A %		A %	В	^ %	Li	1 %	B	^ %	В	1 4 %	В	A %	В	^	В	^	В
1	43	<u> </u>	-27.9		-86.0		-99.8		-99.9		-99.9			DVED F				10 MEG		
2	52		-55.7		-42.3		-36.5		-96.9		-99.9			DVED F				D MEG		<u> </u>
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4	65		-66.1		-23.1		-40.0		-46,1		-55.4		-93.8		-99.0		-99.9		-99.9	
5	60		-38.3		-90.8		-99.9		-99,9		-99,9						BELOW			
6	39		-48.7		-99.8		-99.9		-99,9		-99,9			MOVED		EST -	BELCW			
7	63		-20.6		-44.4		-36.5		-99.9		-99.6		-93.7		-99.9		REMOV		TEST	<u> </u>
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0	65		-52.3		-49.2		-47.7		-04.6	<b></b>	-97,7	ļ	-99.7		-99,9		-99,9	1	RFT	L
Щ	61		-50.8		-84.4		-99.8		-99.9		-99.9						OM 10			<u> </u>
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3	55		-45.4		-41.8		-87.3		-99.7		-99.9	<u> </u>					OM 10			L
4	37		-30.7		-24.3		-94.3		-99,8	<b>!</b>	-99,9	<u> </u>					OM 10			
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IEC 40 (WG) 1: Appendix IV

Sheet No. | | | | d/A/|

# International Electrotechnical Commission Technical Committee No. 40 Electronic Components Working-group: Revision Publication No. 66

TEST REPORT **Humidity test for Components** UNITED STATES TESTING CO. INC. Country: U.S.A. Test Laboratory: RESISTORS (CRACKED CARBON, LAQUER COATED) Copustament Program of Security; Resistance; dans Type of Component: initial meas ist meas 2nd meas. 3rd meas 4th meas 5th mess 6th mees 7th meas 9th meas date: 5/7/56 date: 5/1 | /56 | date: 5/18/56 | date: 5/25/56 | date: 6/1/56 date:6/15/56 date: 6/29/56 date:7/13/56 date:7/27/56 date:5/4/56 T:26 % RH:56% T-22% RH56 % T-24% RH:51 % T23 % RH:46% T-29 % RH. - % T: 26 % RH49% T:24 % RH:62% T:26 % RH56 % T:219C RH:76 % T:23°C RHÓ | % A % A & A & Ag Aq В Aq В Aq В 6.6 31 502590 2.2 3.1 3.2 3.8 4.9 5.6 5.9 1.8 2.4 32 475390 1.2 2.1 2.0 0.5 0.8 1.0 1.3 1.6 9.8 5.0 5.9 7.0 8.3 33 474 920 2 3.2 4.4 8.8 1.3 0.8 0.9 34 - 75890 .8 0.8 0.9 1.0 1.1 1.0 6.2 1.5 2 2.7 3.0 3.9 4.6 5.3 5.6 426 190 2.4 2.4 2.8 3.2 3.5 36 490800 1.8 2.1 3.1 1.3 3.6 1.0 1.4 1.8 1.9 2.5 2.8 3.2 37 475560 0.72.6 4.7 5.3 6.6 38 45948 C 1.0 1.9 4 6.1 6.1 5.9 7.7 9.0 10.1 10.9 3.8 4.8 39 479270 1.9 2.7 2.5 2.7 2.3 2.2 2.9 3.1 40 496090 1.4 2.0 1.1 6.2 6.8 4.5 4.7 5.4 1.7 2.8 3.8 5.6 491530 3.9 4.2 4.5 1.9 3.0 3.7 3.7 4.3 42 455640 1.3 8.3 8.6 43 48 2590 2.4 3.9 5.1 6.0 7.0 1.4 8.0 Opened --44 495690 3.7 1.9 2.0 1.7 1.9 45 500360 1.1 1.3 1.4 1.6 1.4 : Unit: OHMS A = RESISTANCE T = ambient temperature in laboratory. · Delete if not applicable. 1 Units RH= relative humidity in laboratory.

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									TEST RE										
Test Lab	oratory:	UN	TED ST	TATES	TESTIN	G CO.	INC.		7						Country:	U.S.	A.		
Type of C	omponent		PER CAR					(\$\$)		~	ļc.	apacitance	+ Tanger				Inoutation	a Resistan	
Initial		15: 1	meas	2nd r	ne a s	3rd n	neas	4th n		5th r		6th i	De & 3	7th	me as	8th i	ne a s	9th m	De #6
date: 5/	29/56	date: 6,	/5/56	date: 6	712756	date: 6/	19756	date: 6/	/26/56	date: 7/	10/56	date: 7/	24/56	date: 8	/7/56	date: 8/	21/56	date:	
															кнб8 %			T: °C	RH: 7
^	В	A %	В 🖇	A %	в%	A 3	в %	^ %	в %	A %	в %	1 8	вЯ	A %	B%	A %	B %	Α_	В
4648.57	3,36	.24	-1.78	.31	-2.38	.21	- 59	25	.59	.31	-4.46	.33	-5.36	.23	-1.19	.19	30	-	
4744.59	3.90	.31	-2,56		-2.56	.22	26	.27	0		-5.13	.51	-7.18	.22	51	,22	-1.79		
4842.61	4.25	,37	-3.29	.47	-3.52 .59	.31	1.18		-2.82			47	-7.06	.33	-3.29	_31	-3.30	<b> </b>	
4948.57 5045.87	3.40	.23	-1.47	.26	.27	14	2.94	20	1.47		-1.20	35	-5.29	21	- 29	19-	1.76	<b> </b>	<u> </u>
51 43.53	3.67 4.30	. 36	-1.63	.30	-2.10	.22	20.46	.26	54 23	35		.50	-4.36 -6.98	.24	54	.22	-1.09	<del>  </del>	
52 50.43	3.25	.26	-2.15	.31	-2.76	.18	20.46	.34 .26	61	44 30	-4.65 -4.00	34	-5.54	22	-2.09 -1.54	.28	-1.54	╂	
5347.97	3.60	27	-2.72	-31	83	.21	-1.38	.25	2.50	.35	-4 17	.39	-5.28	.25	-2.50	9	-1.39	<b> </b>	<del> </del>
54 44 . 08	3.89	34	-2.31	-45	-3.08	.25	77	.44	4 63	.43	-3.08	43	-4.63	.32	-2.05	.27	-1.03	<del>                                     </del>	-
5549.82	3.28	.26	-3.04	- 32	-2.74	.18	.61	1	-2.13	-32	-6.40	38	-7.01	.22	-2.44	.22	-2.44		
5648.41	3.31	25	-1.51	.31	90	.18	30	.25	.30	.31	-1.81	. 35	-4.83	.23	30	.21	91		
5748.71	3.31	.20	-1.51	.31	-2.71	.14	2.72	.18	1.21		-2,42	-31	-3.32	.18	0	.16	0		
5848.86	3.45	.24	-3.76	.28	-1.44	.20	.58	.24	-1.45		-3.48	.37	-6.66	.22	-3.19	.20	-1.74		
5943.99	3.72	.36	-2.41	.50	-1.34	.34	-,27	.39	1,61	.43	-1.88	.52	-5.91	34	1.88	.32	-2,15		
6048.76	3.43	.26	-2,62	.33	-1.45	.20	0	.27	-1.17	.33	-4,37	.37	-4.37	.25	- ,58	.21	87		
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	Test Labe	oratory:	11	NITED	STATES	TEST	ING CO	LNC								Country:	U.S.	Α		
_	Type of C	Component			CAPACIT				IASS)			6	opositence	+ Tenger	+ of 1.000	Angler B			n Resistan	
	Initial		1s1 r		2nd r		3rd m		4th m	ne a s	5th n	eas	6th n	×as	7th n	neas	8th r	ness	9th m	
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1	т: 25%	RH: 56 %	т:25 °с	RH: 46.	T:27%	RH:54 7.	т:21% г	чн:55 %	т:23с	ян: 587.	т:27 %	RH5 7.	τ:23%	RH 95%	721 °c	RH: 68%	т:22 %	RH: 69%	T: °C 1	RH:
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8	160	900	50	300	70	400	65	90	96	43	80	55	100	500	140	400	190	400		
9	84	#1000	95	400	200	400	160	500	100	500	110	500	140	400	110	500	100	600		
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	42.53	3.74	,16	-3.20	.35	-2.94	.07	-5.10		-1.87	02			-6.68	.07	1.07	02	-3.21		
,	56,85	3.73		-2.94	.38	-1.87	.11	-3.48		-2.95	.09	-3.75		-5.63	.14	80		80		
	45.99	3.64		-3,38	.21	-3.64	02	-4.43		-3.64	04			-6.25	06	-2.86		-4.17		
)	58.17	4.22		-4,26	.32	-2.84	12_	-5,21		-2.61		-5.45		-6.40	,10	95	.05	-2.84	<u> </u>	4_
_	47.41	3.89		-4.37	.33	-2.82	.06	-4.88	.06	-2,31		-5.65		-7.20	06	2.06	17	-3.60	<b> </b>	→—
_	49.64	3.25	04	-4.61	.46	-2,46		-3.08		-2,15	-,10			<u>-6.15</u>	0	-1.85	04	-2.77	<b> </b>	
	45.09	3.86	22_	-4.14	.42	77	.24	-2.85		-2,59		-6,22		-7,00	.15	-2.85	<u> </u> .0 <u>7</u> _	-4.14	<b>}</b>	
_	56 65	4.77	22	-2.72	.38	-3.35	.25	-1.47	.23	.21		-4,19		-6,71	.16	.63		-1.26	<b>!</b>	
5	46.54	3.81	12	-2.88	.36	.52	.13	52		-2,36		-4,46		-5.51	.0	-1.57		-2.62	<del> </del>	
2	45.31	3.76		-2.12	.46	-1.59		26		-1.06		-3,99	0	-1,86	.07	80		53	<b>!</b>	
7	53.66	3.90		-3.58	.48	-2.56		-2,56		-1.79		-5,13		-7.18	.26	.26		-2.31	<b>├</b>	
3_	52.08	3.85		-1.55	.40	-3.89		-1.29		-1.30		-4.93		-6.50		-2.86		-2.86	<b></b>	
9	46.48	3.90		-4.61	.32	-3.84		-2.05		-2,56		-5,83		-7.43	0	-2.05		-3.33	ļ	_
)	43.75	3.80	16	-4.21	.38	-2.89	.14	-3,94	.11	-3,42	02	-6 <u>.58</u>	14	<u>-8,16</u>	04	-4.74	09	-4.47	ļ	
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										Revision			••							
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7	Test Lat	oratory:	UN	ITED S	TATES	TESTIN	G CO.	INC.								Country:	U.S.A	١.		
7	Type of	Component			PACITO				OPRENE	)		0	Perment	+ Tange	+ of Love	Angles D		Insulation	Resister	×e •
Т	Initia	l meas		neas	2nd m	e a s	3rd m	cai	4th	me as	5th s		6th 1			mens	8th r			me a s
k	161e: 5/	29/56	auce: 6/	5/56	date: 6/	12/56	date: 6	19/56	date: (	5/26/56	date:7/	10/56	date: 7/	24/56	date: 8/	77/56	date: 8	/21/56	dete:	
F	r.25%	кн86 ≈	r: 27°c	кн:46%	т:27°c	кн54 ъ.	T: 2 Pc	₽н55 %	τ:23%	ян:58%	т27 °c	RH: 61%	т:23 %	₽нб5 %	727°C	RH:68%	τ22 ℃	RH: 69%	T: °C	RH:
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7	52	*1000	29	700	34	700	29.5	800	34	500	28	500	28	800	27	500	25	85		
8	78	1000	62	600	37	500	25.5	900	31	600	30	500	39	500	35	500	39	400		
9	60	1000	80	500	52	500	80	800	55	800	50	500	47	600	34	400	28	500		
ō	40	*1600	32	450	30	900	24	600	30	400	27	350	30	400	22	400	18	400		
7	74	*1000	33	500	34	500	25	500	31	300	33	350	33	500	35	500	30	500		
2	83	1000	47	600	51	200	40	1000	38	600	36	500	44	500	30	500	27	500		
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7	50	*1000	21	500	26	600	26	1000	21	700	13	400	16	300	6.6	500	5	400		
8	44	*1C00	29	600	35_	500	32	600	29	400	26	400	25	600	17	500	12	400		1
59	55	*1000	55	700	37_	600	30	600	33	400	27	500	40	400	26	400	23	300		1
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ponent; PA	B % -1.25 .61 .75 1.02 -1.00	PACITOR 2nd m dete: 6/ T:31 °C 1	RS (PH 14/56	ENOLIC 3rd m date: 6/ T:22°C I A % 08	MOULD 21756	NC. ING) 4th n	Meas /28/56	Sth ii	Ca	6th =	cas	t of Loss	Angle; Re	U.S.A.	Loculation cas	9th s	
ponent: PA as 1st 756 date:67 65 % 728 % B	PER CAF meas 7/56 RH:48% F1.25 .61 .75 1.02 -1.00	PACITOR 2nd m dete: 6/ T:31 °C 1	RS (PH 14/56 RH67% B % -6.25	ENOLIC 3rd m date: 6/ T:22°C I A % 08	MOULD 21756 RH:60 %	NC. ING) 4th n date: 6,	Meas /28/56	5th o	Ca	6th =	cas	t of Loss	Angle; Re	Sth m	Loculation cas	9th s	
1st / 1st / 756 date:6/ 65 % T28 %  8	7/56 RH:48% B % -1.25 .61 .75 1.02 -1.00	2nd m dete: 6/ T:31°C 1 A % .15 .10	14/56 RH67% В Я -6.25	3rd m date: 6/ T:22°C 1 A %	21756 RH:60 %	4th n date: 6, T:27C	/28/56	date: 7/	12/56	6th =	cas	7th a	eas	8th m	eas	9th s	
756 date:6/65 % T28 %  B	7/56 RH:48% B % -1.25 .61 .75 1.02 -1.00	15 10 10 10	14/56 RH67% B% -6.25 -3.39	T:22°C I	21756 RH:60 % B %	dste: 6/ T:27c	/28/56	date: 7/	12/56								3065
65 % T28 %  B	B % -1.25 .61 .75 1.02 -1.00	7:31°C 1 A % .15 .10	вяб <b>7</b> % вя -6.25 -3.39	T:22°C I	RH:60 %	т:27с	/28/56 RH:55%	date: 7/	12/56	dete: 7/	26/56	date: Q/	0/56	14-4 O /	77 <i>156</i> 1		
B	В % -1.25 .61 .75 1.02 -1.00	.15 .10	вя -6.25 -3.39	<b>A</b> % <b></b> 08	вя		RH:55%			710	20/20	360	5/ 70			dete:	
3.20 .09 3.24 .10 4.00 .06 3.91 .18 3.98 .28 3.50 .60	.61 .75 1.02	.15 .10	-6.25 -3.39	08		^ %	200							т:25℃			RH:
3.24 .10 4.00 .06 3.91 .18 3.98 .28 3.50 .60	.61 .75 1.02 -1.00	.10	-3.39		U	0.0	B %	A %		A %	B %	A %	B %	<b>^</b> %	B %	^	В
4.00 .06 3.91 .18 3.98 .28 3.50 .60	.75 1.02 -1.00	.14		ı - (VI	2		-2.19		-2.81	26	2,50	32	62	51	7.81		
3.91 .18 3.98 .28 3.50 .60	1.02		1-4 DU		2.16	01	92	08	.92	15	1.23	20 20	1.23	36 34	9.00		
3.98 .28 3.50 .60	-1.00	00			1.25	11	-1.53	22	0	20 .28	0		2.05	34	5.37		
3,50 .60		.48	-4.85 -7.03	.14	1.53	.34	-3.01		-3.52	.34	-4.52	.37	2.01	.15	6.03		-
			331.42		60571			ROM TE		NSULAT			ICE BE	OW 10		us.	-
رون مارم الرابعات			-4.76	08		0	95	06	95	12	95	22	.95	39	8.25	2	-
4.49 0	3.56	. 55	9.35	.38		<del></del>				.93	55.68	.95	58.35	.85	58.35		<b></b> -
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					.26	.32	-2.59	.30	78	.30	-1.04	.35	-1.82	-23	6.49		
3.80 .18	0		-2.89	.22	53	.26	-2.63	.30	-2.63	.22	79	.22	-2.37	.08	3.95		
3.10 .07	.32	.09	-4.84	07	,32	07	97	16	.64	19	-1.29	29	.32	42	6.13		
3.20 .09	.31	-15	-5,31	01	1.56	.01	94	01	-1.56	14	. 94	16	-1,56	- 33	8,13		
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	-			<del> </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>	T	<del>                                     </del>	1	<b>†</b>		<del> </del>	<u> </u>	1		1
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Test Laboratory:   UNITED STATES TESTING CO., INC,   Country: U.S.A.   Type of Components:   PAPER CAPACITORS (PHENOLIC MOULDING)   Country: U.S.A.   Country: U.S.A.   Type of Components:   PAPER CAPACITORS (PHENOLIC MOULDING)   Country: U.S.A.								Technica	el Commit	toe No. 40	Electroni Publicati	e Compon					Sheet No.	11/C	/2		
Type of Component:   PAPER CAPACITORS (PHENOLIC MOULDING)   Component - Composer of Local Accordance   Institutes   Inst											TEST RE	PORT									
Type of Component:   PAPER CAPACITORS (PHENOLIC MOULDING)   Component - Composer of Local Accordance   Institutes   Inst	7	fest Let	oratory:	UNIT	ED ST	TES TE	STING	CO	NC.								Country:	U.S.A	١.		
date: 5/31/56   date: 6/7/56   date: 6/11/5   state: 6/21/56   date: 6/28/56   date: 6/12/5   state 6/25/56   date: 8/9/56		Type of	Component							NG)			C.	aperate associ	<b>→</b> ©	of Loss	Angles il	ecpotement	insulation	Rosister	nce •
T28 & RH:65 % T28 & RH:48 % T31 & RH67 % T:22 & RH:60 % T27 & RH:55 % T30 & RH:50 % T31 & RH:5 % T:28 & RH:62 % T:25 & RH:7 % T:																				9th (	De As
A B Ag B Ag B Ag B Ag B Ag B Ag B Ag B																				date:	
46 500		728°C	RH:65%	<b>⊤28 ℃</b>	RH: 48.	ग:उँ।℃।	кн67 %	т:22°с г	≀н:60%	7,27%	RH:55%	<b>⊤</b> პ0 ℃	RH: 50%	T31 %	RH: 5 %	r:28%	RH 52 %	т: 25%	RH://%	7: °C	RH:
47 300			В		В	A %	В	Ag	B	A %	В	Ad	В			Ag	B	14	8	A	E
47 300	46	500		191.40			2	-97,80		-99,26		-99.36		-99.46		-99.7		-99.81			1
48 200	47	300	T	-76.66		-97.83				-97,87		-99.66		-97.00		99.00		-99.20			au
50         2 \ 0         -10.00         -45.00         -10.00         -25.00         -5.00         -15.00         -40.00         -40.00           51         3.7         -97.56         -99.73         -99.81         RMOVED FROM EST - INSULATION RESIS ANCE BELOW 10 MEGOHMS           52         900         -96.11         -99.47         -98.97         -99.55         -99.51         -99.69         -99.85         -99.81           53         .35         -37.14         -72.57         -52.86         -82.85         -86.57         -82.86         89.43         -87.14           54         250         -20.00         -52.00         -20.00         -24.00         -40.00         -24.00         -40.00         -20.00           55         300         -83.66         -98.33         -95.66         -98.00         -98.50         -99.23         -99.60         -99.62           56         300         -85.00         -98.43         -96.25         -98.47         -97.26         -98.53         -99.33         -99.47           57         300         -33.33         -56.66         -33.33         -43.33         -40.00         -36.66         -43.33         -33.33           58         250         0	48	200		-83.00		-97.20		-94.50						-98.00		99.30		-99.05			
52       900       -96,11       -99,47       -98,97       -99,55       -99,51       -99,69       -99,85       -99,81         53       .35       -37,14       -72,57       -52,86       -82,85       -86,57       -82,86       -89,43       -87,14         54       250       -20,00       -52,00       -20,00       -24,00       -40,00       -24,00       -40,00       -20,00       -20,00       -98,50       -99,23       -99,60       -99,62       -99,62       -96,25       -98,47       -97,26       -98,53       -99,33       -99,47       -99,47       -97,26       -98,53       -99,33       -99,47       -99,47       -97,26       -98,53       -99,33       -99,47       -99,47       -97,26       -98,53       -99,33       -99,47       -99,47       -98,66       -43,33       -33,33       -56,66       -33,33       -43,33       -40,00       -36,66       -43,33       -33,33       -33,33       -56,66       -33,33       -43,33       -40,00       -28,00       -20,00       -24,00       -96,65       -99,17       -99,66       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65	49	250		-36.00		-61.20		-56,00		-52.00				-60,00		-60.00		-60.00			
52       900       -96,11       -99,47       -98,97       -99,55       -99,51       -99,69       -99,85       -99,81         53       .35       -37,14       -72,57       -52,86       -82,85       -86,57       -82,86       -89,43       -87,14         54       250       -20,00       -52,00       -20,00       -24,00       -40,00       -24,00       -40,00       -20,00       -20,00       -50,00       -98,50       -99,23       -99,60       -99,62       -99,62       -99,62       -99,62       -99,62       -98,50       -99,23       -99,60       -99,62       -99,62       -98,50       -99,23       -99,60       -99,62       -99,62       -99,62       -98,53       -99,33       -99,47       -98,51       -99,33       -99,47       -99,47       -98,50       -98,53       -99,33       -99,47       -99,47       -98,66       -33,33       -56,66       -33,33       -40,00       -36,66       43,33       -33,33       -33,33       -56,66       -33,33       -40,00       -28,00       -20,00       -24,00       -96,75       -98,80       -98,66       -99,17       -99,66       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       -99,65       <	50	2 `0		-10.00		-45.00		-10.00		-25.00		- 5.00		15.00		40,00		-40,00			
53         .35         -37,14         -72,57         -52,86         -82,85         -86,57         -82,86         89,43         -87,14           54         250         -20,00         -52,00         -20,00         -24,00         -40,00         -24,00         -40,00         -20,00           55         300         -83,66         -98,33         -95,66         -98,00         -98,50         -99,23         -99,60         -99,62           56         300         -85,00         -98,43         -96,25         -98,47         -97,26         -98,53         -99,33         -99,47           57         300         -33,33         -56,66         -33,33         -43,33         -40,00         -36,66         -43,33         -33,33           58         250         0         -20,00         -72,00         -56,00         -60,00         -28,00         -20,00         -24,00           59         300         -86,33         -98,60         -96,75         -98,80         -98,66         -99,17         -99,66         -99,65	51	3.7	1	-97.56		-99.73		-99.81	RE			EST -	INSUL	ATION	RESIST			10 MEG	OHMS		T
54         250         -20.00         -52.00         -20.00         -24.00         -40.00         -24.00         40.00         -20.00           55         300         -83.66         -98.33         -95.66         -98.00         -98.50         -99.23         -99.60         -99.62           56         300         -85.00         -98.43         -96.25         -98.47         -97.26         -98.53         -99.33         -99.47           57         300         -33.33         -56.66         -33.33         -43.33         -40.00         -36.66         -43.33         -33.33           58         250         0         -20.00         -72.00         -56.00         -60.00         -28.00         -20.00         -24.00           59         300         -86.33         -98.60         -96.75         -98.80         -98.66         -99.17         -99.66         -99.65	52	900		-96.11		-99.47		-98.97		-99.55		-99,51	I					-99,81			
55     300     -83.66     -98.33     -95.66     -98.00     -98.50     -99.23     -99.60     -99.62       56     300     -85.00     -98.43     -96.25     -98.47     -97.26     -98.53     -99.33     -99.47       57     300     -33.33     -56.66     -33.33     -43.33     -40.00     -36.66     -43.33     -33.33       58     250     0     -20.00     -72.00     -56.00     -60.00     -28.00     -20.00     -24.00       59     300     -86.33     -98.60     -96.75     -98.80     -98.66     -99.17     -99.66     -99.65	53	. 35		-37, 14		-72,57		-52.86				-86.57		82.86		89.43		-87.14			
56     300     -85.00     -98.43     -96.25     -98.47     -97.26     -98.53     -99.33     -99.47       57     300     -33.33     -56.66     -33.33     -43.33     -40.00     -36.66     -43.33     -33.33       58     250     0     -20.00     -72.00     -56.00     -60.00     -28.00     -20.00     -24.00       59     300     -86.33     -98.60     -96.75     -98.80     -98.66     -99.17     -99.66     -99.65	54	250		-20,00		-52,00		-20.00		-24.00		-40.00		-24,00		40.00	4	-20.00			
57     300     -33,33     -56,66     -33,33     -40,00     -36,66     -43,33     -33,33       58     250     0     -20.00     -72,00     -56.00     -60.00     -28,00     -20,00     -24,00       59     300     -86,33     -98,60     -96.75     -98.80     -98.66     -99,17     -99,66     -99,65	55	300		-83,66		-98,33		-95.66		-98.00		-98.50		-99,23		99.60	1	-99,62			T
58     250     0     -20.00     -72.00     -56.00     -60.00     -28.00     -20.00     -24.00       59     300     -86.33     -98.60     -96.75     -98.66     -99.17     -99.66     -99.65	56	300	Γ	-85.00		-98,43		-96,25		-98.47		-97,26		98.53		99.33		-99.47			
58     250     0     -20.00     -72.00     -56.00     -60.00     -28.00     -20.00     -24.00       59     300     -86.33     -98.60     -96.75     -98.80     -98.66     -99.17     -99.66     -99.65	57	300		-33.33		-56,66		-33,33		-43,33		-40.00	1	-36,66		43.33		-33.33		·	Γ
59 300 -86,33 -98,60 -96.79 -98.80 -98.66 -99.17 -99.66 -99.65	58	250		0		-20.00		-72.00				-60.00						-24.00			T
60 400 -88,25 -98,87 -97,50 -99.00 -98,82 -99,02 -99.65 -99.75		300		-86.33		-98.60		-96.75		-98.80		-98.66		99,17		-99.66		-99.65			Г
	60	400		-88.25		-98,87		-97.50		-99.00		-98,82		99.02		99.65		-99.73			1
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	Test Lebe	relory;					ING CO									Country	U.S.	A		
	Type of C	omponent					(PAIN	TED)				C	specitence	+ Tengon	t of Loss	Angle; the	ototomoo;	inomistico.	- Co-obstant	1300 ·
	Initial		lat n		2nd π		3rd m		4th n		5th n		6th =		7th n		\$th :			0000
	date:5/2					1/55		<u> /8/56</u>					date: 7/							
	T: 23%	·											T:21 9c					RHD4 %	·	
	1 A	B	A %	В	A 9	B	A 5	B 70.00	A of	B 77 73	A # 50	B XE AG	A 4	8	Ag	В	Ag	100	14	₽
46		.08		16,65		25.62	13.08	32.20	13.52	33.32			REMOV					BELOW	*********	<b>FOHPAS</b>
47	95.2	.02	2.10	7.03		10.62		15.90					11.65		13.02	28.50	RFT	- LOW	IR	<b></b>
48	97.5	.09	20	.21	.10	.10	.39	.44	.30	.51	0.40	.66		1,03	.59	1.36	69		.89	1.92
49 50		.08	0	.06	- 10	.31	0	.15	10	1.41	1,22	2.03	1.42	.26	10	3.00	1.42	76	44	75
<u> 50</u>	98.2	.02	.20	.36	.30	39	81 49	.53	.71 .60	.64	.70	.90		2.54	1.42	2,90	.99		1.22	2.42
<u>51</u>	100.1		.73	1.95	1.36	3.71		5.30	2.82	7.02	4.60	8.84		11.45	5.65	13.80	4.40	1.8.	3.14	7.2
<u>52</u>	95.6	01_	0	.22	0		2.30	41	.30	.52	4.00	-0 <u>-04</u>	.79	1.22	.79	1.66	4.40	2 13	1.00	2.03
<u>ر</u> 54	101.7	. <u>C4</u> . 07	19	.26	10	31_ _32	.49	. 52	.49	.71	.59	88		1.29	.79	1.70	- 198 - 98	1.78	.79	1.81
55	101.8	.07	.29	.29	49	.61	.08	.71	.69	.88	.88	1.15		1.61	1.37	2.19	1.57	2.39	1 37	2.34
<u>56</u>	99.6	.05	.50	.66	.70	1.09	1.50	1.93	1.71	2.29	2.11	2.82		4.64	3.91	5.66	5.12	7 38	3.21	5.50
<u>57</u>	98.2	.04	.10	.09	0	.03	.10	.08	.10	.08	.20	.11	.20	.22	.10	.35	.20	41	-20	37
58	100.6	.06	.10	.26	.20	.37	.39	.54	.30	.53	.50	.67	.61	.88	.50	1.08		1.27	-50	1.14
59	98.9	.08	0	.07	10	.30	Ö	.39	.10	.61	1.00	1.82		2.17	1.50	2.17		2.18	1,60	2,15
50	95.7	.01	1.77	4.85	3.23	7.37	5.85	11.46	6.06	12.23	7.62	14.49		14.95	8.04	16.50		12.03	6.17	11.7
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CERAM  18: meas  : 5/28/ 3 °C RH:41  A B  9.97  0.68  0.00  0.00  0.00  0.00  0.00	3/56 date: 6/	CITORS  De as  /1/56 ( RH577,  B	NG CO. (PAINT 3rd me date: 6/ 7:22°c R -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	INC ED)	Ath m	Revision Rev	Sth m date: 6/ 722 %:  A -99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40 -97.55	c Compose on No. 61 on No.	6th n 6date: 7/ T 21 % MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	76/56 RH59 % B FROM T	7th r date: 7 / T: 24 %	лова 20/56 RH48% В IS. RE	8th sr date: 8 / T25 %	Insulation 3/56 RH: 24% B DW 100 LOW 16	91.00 -91.00 -92.50 -96.20	17/1 th: 59
CERAM  18: meas  : 5/28/ 3 °C RH:41  A B  9.97  0.68  0.00  0.00  0.00  0.00  0.00	AMIC CAPAC 2nd n 3/56 date: 6/ 3:46% 7:22% B A -99.95 -81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00 -91.00	CITORS  De as  /1/56 ( RH577,  B	(PAINT 3rd me date: 6/ 7:22°c R -99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	ED.) /8/56 H53 %	4th r date: 6 / T: 22 %	15/5 RH:00%	Sth m date: 6/ 722 %:  A -99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40 -97.55	22/5 RH: 607.	6th m 6date: 7/ T 21 % A MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	76/56 RH59 % B FROM T	7th c date:7/T: 24°C A EST-11 -99.99 -90.00 -92.00 -93.00 -91.30 -99.38	лова 20/56 RH48% В IS. RE	8th m date: 8/725 %  A S. BEL  RFT90.00 -93.10 -93.00 -95.50 -99.86	Insulation eas 3/56 RH: 54% B DW TOO LOW IF	9th m date: 8/ T:24 % B A MEGOH -91.00 -95.00 -92.50 -96.20	17/ th: 59
CERAM  18: meas  : 5/28/ 3 °C RH:41  A B  9.97  0.68  0.00  0.00  0.00  0.00  0.00	AMIC CAPAC 2nd n 3/56 date: 6/ 3:46% 7:22% B A -99.95 -81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00 -91.00	CITORS  De as  /1/56 ( RH577,  B	(PAINT 3rd me date: 6/ 7:22°c R -99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	ED.) /8/56 H53 %	4th r date: 6 / T: 22% - A - 99.99 - 80.00 - 60.00 - 94.00 - 92.00 - 99.95 - 50.00 - 88.00	15/5 RH,60% B	dais: 6/ r 22 °c: ^ -99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40	22/5 RH: 60y,	6th m 6date: 7/ T 21 % A MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	76/56 RH59 % B FROM T	7th c date:7/T: 24°C A EST-11 -99.99 -90.00 -92.00 -93.00 -91.30 -99.38	лова 20/56 RH48% В IS. RE	8th m date: 8/725 %  A S. BEL  RFT90.00 -93.10 -93.00 -95.50 -99.86	Insulation eas 3/56 RH: 54% B DW TOO LOW IF	9th m date: 8/ T:24 % B A MEGOH -91.00 -95.00 -92.50 -96.20	17/ th: 5
CERAM  18: meas  : 5/28/ 3 °C RH:41  A B  9.97  0.68  0.00  0.00  0.00  0.00  0.00	AMIC CAPAC 2nd n 3/56 date: 6/ 3:46% 7:22% B A -99.95 -81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00 -91.00	CITORS  De as  /1/56 ( RH577,  B	(PAINT 3rd me date: 6/ 7:22°c R -99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	ED.) /8/56 H53 %	4th r date: 6 / T: 22% - A - 99.99 - 80.00 - 60.00 - 94.00 - 92.00 - 99.95 - 50.00 - 88.00	15/5 RH,60% B	dais: 6/ r 22 °c: ^ -99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40	22/5 RH: 60y,	6th m 6date: 7/ T 21 % A MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	76/56 RH59 % B FROM T	7th c date:7/T: 24% A EST-11-99.99.99.90.00 -92.00 -93.00 -91.30 -99.98	20/56 RH48% B IS. RE	8th m date: 8/725 %  A S. BEL  RFT90.00 -93.10 -93.00 -95.50 -99.86	3/56 RH: 24% B OW TOO LOW IF	9th m date: 8/ T:24 % B A MEGOH -91.00 -95.00 -92.50 -96.20	17/ th: 5
:5/28/ 5 °C RH:44 5 °C RH:44 6 9.97 9.66 .00 .00 .00 .00 .00	B/56 date: 6/ ::46. T:22%  B A  -99.99  -99.95  -81.00  -70.00  -97.90  -86.00  -99.81  -50.00  -93.00  -91.00	/1/56 RH57% 1	4me: 6/ 7:22°c R -99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	/8/56 H53 %	400-99.99 -99.99 -80.00 -60.00 -94.00 -82.00 -99.95 -50.00 -88.00	15/5 RH,60% B	dais: 6/ r 22 °c: ^ -99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40	22/5 RH: 60y, B	6date: 7/ T 21 % A MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	76/56 RH <sup>59</sup> % B FROM T	date:7/ T: 24% A EST-11-99.99 -90.00 -92.00 -93.00 -91.30	20/56 RH48% B	A BELI RFT - -90.00 -93.10 -95.50 -99.86	3/56 RH: 24% B DW 100 LOW 16	A MEGOH -91.00 -95.00 -96.20	17/ th: 5
3 °C RH:41 B 9 9 7 0 68 0 00 0 00 9 0 0 00 0 00 0 00	846. T:22%  B A  -99.95  -81.00  -70.00  -97.90  -86.00  -99.81  -50.00  -91.00	RH57 % 7	7:22°c R -99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	н53 %	-99.99 -99.99 -80.00 -60.00 -94.00 -82.00 -99.95 -50.00	в	-722 °C -99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40 -97.55	кн: 60 <sub>7</sub> , в	721 °c A MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	RH59 % B FROM T	7: 24% A EST-11 -99.99 -90.00 -92.00 -93.00 -91.30 -99.98	RH48% B	-73 % S. BELL RFT - -90.00 -93.10 -93.00 -95.50 -99.86	RH:54% B DW TOO LOW TR	MEGOH -91.00 -95.00 -92.50 -96.20	: Э В
B 9,97 9,68 9,00 9,00 90 90	B A -99.95 -81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00 -91.00	8	* 99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50		-99.99 -99.99 -80.00 -60.00 -94.00 -82.00 -99.95 -50.00 -88.00	В	-99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40	В	A MOVED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	FROM T	-99.99 -90.00 -92.00 -93.00 -91.30	B S. RE	* BELL RFT - -90.00 -93.10 -93.00 -95.50 -99.86	B DW TOO LOW IR	•91.00 •95.00 •95.50 •96.20	В
9,97 9,68 ,00 ,00 ,00 ,90	-99.99 -99.95 -81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00		-99.99 -99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50	В	-99.99 -99.99 -80.00 -60.00 -94.00 -82.00 -99.95 -50.00 -88.00		-99.99 -99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40 -97.55	_	40VED -99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20	ROM T	-99.99 -90.00 -92.00 -93.00 -91.30 -99.98	S. RE	RFT - -90.00 -93.10 -93.00 -95.50 -99.86	W TOO	MEGOH -91.00 -95.00 -92.50 -96.20	_
0.68 0.00 0.00 0.00 90 0.00	-99.95 -81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00 -91.00		-99.96 -88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00		99.99 -80.00 -60.00 -94.00 -82.00 -99.95 -50.00 -88.00		-99.97 -95.10 -86.00 -97.00 -91.00 -99.83 -94.40 -97.55	RE	-99.98 -95.50 -91.00 -97.20 -95.40 -99.98 -93.20		-99.99 -90.00 -92.00 -93.00 -91.30		RFT - -90.00 -93.10 -93.00 -95.50 -99.86	LOW IF	-91.00 -95.00 -92.50 -96.20	45
,00 ,00 ,00 ,90	-81.00 -70.00 -97.90 -86.00 -99.81 -50.00 -93.00 -91.00		-88.00 -80.00 -98.50 -91.00 -99.90 -60.00 -93.00		-80.00 -60.00 -94.00 -82.00 -99.95 -50.00		-95.10 -86.00 -97.00 -91.00 -99.83 -94.40 -97.55		-95.50 -91.00 -97.20 -95.40 -99.98 -93.20		-90.00 -92.00 -93.00 -91.30		-90.00 -93.10 -93.00 -95.50 -99.86		-91.00 -95.00 -92.50 -96.20	
.00	-70.00 -97.90 -86.00 -99.81 -50.00 -93.00		-80.00 -98.50 -91.00 -99.90 -60.00 -93.00 -91.50		-60.00 -94.00 -82.00 -99.95 -50.00		-86.00 -97.00 -91.00 -99.83 -94.40 -97.55		-91.00 -97.20 -95.40 -99.98 -93.20		-92.00 -93.00 -91.30 -99.98		-93.10 -93.00 -95.50 -99.86		-95.00 -92.50 -96.20	
.00 .00 .90 .00	-97,90 -86,00 -99,81 -50,00 -93,00		-98.50 -91.00 -99.90 -60.00 -93.00		-94.00 -82.00 -99.95 -50.00		-97.00 -91.00 -99.83 -94.40 -97.55		-97.20 -95.40 -99,98 -93,20		-93.00 -91.30 -99.98		-93.00 -95.50 -99.86		-92.50 -96.20	
90	-86,00 -99,81 -50,00 -93,00		-91.00 -99.90 -60.00 -93.00		-82.00 -99.95 -50.00 -88.00		-91.00 -99.83 -94.40 -97.55		-95.40 -99.98 -93.20		-91.30 -99.98		-95.50 -99.86		-96.20	
.90 .00	-99.81 -50.00 -93.00 -91.00		-99,90 -60,00 -93,00 -91,50		-99,95 -50,00 -88,00		-99 <b>.83</b> -94.40 -97.55		-99,98 -93,20		-99,98		-99.86			
.00	-50,00 -93,00 -91,00		-60,00 -93,00 -91,50		-50,00 -88,00		-94.40 -97.55		-93,20						LOO ON	
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0.00	-91.00		-91.5Q								-94.80		-96.80		-97.30	
						,	107 00		-97.60 -97.10		-93.40		-94.50		-90.00	
					-99.80		-97.82		-99.86		-99.86	<del></del>	-99.73		-99.79	
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.00	-85.00				81.00		-90.90		-97.00		-96.50		-96.70		-96.50	
0.00	-91.00		-93.0d		-86.00 -91.00		-97.30		-99.95		-99.05		-99.76		-99.80	
)	-91.00	+	-92.00 -99.55		-99.91		-88.50 -99.95		-99.96		-99.98		-99.98		-99.99	
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						T = embient temperature in laboratory.  BH= relative humidity in laborators.	T = embient temperature in laboratory.  BH= relative humidity in laboratory.									

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										tee No. 40 : Revision						-				
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	Test Labo	ratory:	UNI	TED ST	ATES T	ESTIN	G CO	INC.								Country:	U.S. /	١.	·	<del></del>
	Type of C				CAPACIT				TED)			C	pecitance	+ Tanger	t of Loss	Angle; &	-olotonoo;	Inculation	- Resistan	•••
	Initial		lst m		2nd m		3rd m			neas	5th n	neas	6th n	30 8 S	7th n	neas	8th m		9th m	200
	date: 5/	28/58	dates /	37/56	date: 6	14/56	date: 6/	11/56	date5/	18756	date 6/	25/56	date: 7/	9/56	date: 7/	23/50	date: 8	16/56	date:8/	
	т:22°с і	кн.о́5 <b>7.</b>	т:23 °с	кн:53%	т22 ℃ і	кн52 %	т:22°с і	чн:68 %	т: 22°с	RH: 56%	т:21%	<b>к</b> н∮б %	T:21%	<b>кнб4</b> %	т:24 °с	RH: 66%	T: 24 °C	RH74 %	т: 24°с	
	^	В	A %	В	A%	В	A %	В	AS	В	AZ	В	A %	В	A %	В	Ag	В	A 9	В
46	105.4	.05	0	.05	09	.06	28	.10	0 .	.14	19	. 14	19	.19	28	.38	38	.38	28	.35
47	107.7	.04	0	.05	09	.05	09	.03	18	.05	09	.05	.10	.04	0	.26	28	.33	0	.30
48	103.6	.06	0	.01	.09	.03	0	.03	0	.07	0	.04	0	.09	.10	.27	29	.32	10	.32
49	102.9	.04	0	.08	09	.02	-2.C4	.05	19	.07	10	.05	-,10	.07	10	.25	29	.32	19	.27
50	106.3	.07	.09	.03	,09	• 04	1,12	.10	09	.18	19	.13	.19	,15	.19	.32	28	.38	.09	.37
51	97.8	.07	20	.01	<b>2</b> 0	.04	20	.07	31	.12	20	.10	10	.11	10	.30	10	.30	41	.33
52	104.7	.01	19	.04	-,28	.02	1.62	.18	19	. 14	29	.15	- 19	.11	20	.30	29	.34	19	.33
53	105.9	. 05	09	.C4	-,09	.02	09	.03	09	.08	09	.08	0	.09	0	.24	0	.30	19	.28
54	105.9	. 03	ú9	.02	09	.01	0	•04	09	.10	.09	.07	09	.07	0	.25	19	.31	0	.29
55	102.6	.03	29	.03	38	.03	29	.05	29	.08	19	.06	29	.09	.58	.27	39	.32	~.19	.27
56	97.7	.08	10	.05	10	.06	-,10	.11	0	.11	20	.14	10	.19	.10	.33	10	.42	10	.30
57	105.3	.07	0	.01	0	.05	09	.03	09	.04	0	.04	0	.05	09	.26	-,19	.33	0	.30
58	103.8	.06	.09	.02	.09	.01	.09	.03	.29	.02	.10	.03	.29	.09	.19	.29	10	.33	.19	.33
59	94.8	. 04	21	.03	21	.05	.73	.03	2.85	.05	21	.05	21	.10	10	.24	42	.35	21	.28
60	103.7	.07	.09	.01	.09	.05	29	.04	19	.07	10	.05	10	.08	10	.28	38	.31	19	.31
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IEC 40 (WG) 1: Appendix IV

International Electrotechnical Commission
Technical Committee No. 40 Electronic Components
Working Town Payling Publication No. 68

Sheet No. 111b/C/2

									cing-group:	Revision	Publicati					-				
									Humidi	TEST RE	PORT Componen	ıt o								
•	Test Labo	eratory;					NG CO.,									Country:	U.S.A			
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	Initial		lat m		2nd m		3rd m		4th m		5th m		6th m		7th n	neas	8th m	***	9th m	
			723 90.	51/55	m.2290	4/56	date: 6/ T:22°C !	11/55	722 9c	/18/56	T. 2190	25/56	date: 7/	9/56	date: 7/	23/56	date: 8/	6/56	dete: 8/	
	A	B	A &	B	A %	B	Ag	В	AZ		A %	B	Ag	B	A &		1: 24-C	B B	T:24 ℃	RHDZ %
46			-20.00		-70,00		-95.40		-96.40		-96.70		-97.00		-96.40		-95 <b>.</b> 20		-95.40	В
4 7	500		-20.00		-40.00		-40.00		-61.00		-78.00		-98.20		-97.20		97.40		-98.20	
48			-20.00		-40.00		-40.00		-55.00		-76.00		-97 <b>.</b> 60		-95.40		-97.65		-98.84	
45	300		66.66		0		-25.00		-43.33		-70.00		-91.00		-88.66		-84.33		-86.66	
50		-	0		-40.00		-85.33		-89.33		-90.16		-96.83		-94.66		93.33		95.83	
51	400		0		-25.C0		-52.50		-79.25		-83.75		-91.50		-90.25		96.87		-96.37	
52	500		-40.00		-62,00		-89,60		-91.00		-90.80		-89.60	.,.	-92.00		94.40		-97.40	
53	300		0		0		-16.66		-73,33		-66.66		-92.33		-85,66		96.33		-93.66	
54	400		0		-25.00		-55.00		-72,50		-82.25		-77.50		-80,00		84.50		-88.75	
55	400		0		-37.50		-25.00		-37.50		-67.50		-96.75		-88.00		-93.60		-94.25	
56	400		0		-70,00		-86.25		-88.75		-89.50		-95.81		-97.00		-99,60		-99.65	
57	300		0		0		0		-35,00		-60,00		-81,67		-90.66		-96.33		-92.00	
58	400		-25.00		-25.00		-43.75		-52.50		-82.50		-98.50		-93.50		-98.50		-98.50	
59	800		66.66		33.00		-16.66		-36.66		-67.00		-98,00		-90.66		-92,00		-94,00	
60	500		-20.00		-40.00		-40.00		-50,00		-78.0d		87,00		-86,00		95,20		-99,60	
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IEC 40 (WG) 1: Appendix IV

## International Electrotechnical Commission Technical Committee No. 40 Electronic Components Working-group: Revision Publication No. 68

					٠					TEST RE	PORT Componer	sts								
	Test Labo	ratory:	UN1	TED ST	ATES T	ESTIN	3 CO.,	INC.								Country:	U.S./			
	Type of C	omponent:	PAP	ER CAP	PACITO	RS (WA	X DIPP	ED1				C	pacitance	+ Tangen	t of Loss	Angle; De	-	- Louis de la constant de la constan	Revistes	- P
	Initial		lst n		2nd n		3rd r		4th n		5th m		6th m		7th n		Bth s		9th s	
	date:5/2				dete: 6/					18/56	date: 6/	25/56	date: 7/		date: 7				T24 %	20/56
	т:22°с				T: 20°C			RH70 %							1:24 C	Bq	1: 24°C	RH: 74 %	124 °C	RH: 0.2%
	A	В 7.4	A 9,	Вб		-2.24	.26	В g	A 95	в <sub>я</sub> -2.62	A &	B of	A 9	в ф 20.60			REMOV			1-3-
	49.40	5.34		-8.05	.14	-2.62						-1.87 -2.99	.35	4.87						74 00
47	+	5.34		-6.36	.21	0	.24	2.06		-2,99		-2.99 -3.70	.14	5.18		-2.06 -4.07	.82	8,05	.49	34,08
<u>48</u>	45.08	5.40		-5.18 -6.86	.12	.40	.22	2,96		-3.15 98		-2.94	-41	2.94		-4.12		28,82		146.66
4 y	51.29	5.10 5.46		-4.03	.06	1,83	.15	1.96 6.04	.25	. 18		13.18			M TES		V INS.		TANCE	140.00
<u>5 -</u>	50.03	5.54		-2.01	.10	-1.62	.16	1 2.71		-4 51		-2.17		18.41					M TES	†
<u> 21</u> 52	48.87	4.94		-1.41	16	- 20	.39	5.26	.33	4.05	.59	8.48	1.86	94.33	REMOV	ED FRO	M TEST	- LO	IR	
- C	52.87	5.36		-5.04	13	-2.24	.32	4.48	.43	1.49		33.40			REMOV					
	4= 38	5.38		-2.60	24	.37	.36	3.72	.34	18		4.83	.63	7.81	1.13	38.10	REMOV	ED FRO	M TES	1
55	51.44	5.03		-5.56	.10	.20	.25	2.98	.29	4.17		16.70	1.92	91.45	4.47	260,90	REMOV	ED FR	M TES	
5,6	53.46	5.32		-5.64	.09	-1.31	.17	7.14	.37	3,95	REMOV	ED FRO	M TEST	- LO		RESIS				
57	52.16	5.64		-4.25	.31	5.67	.88	39,00	1.74	102.13	REMOV	ED FRO	M TEST			RESIS	TANCE			
5,0	49.20	5.33		-6.38	. 14	-2.44	.12	2.44	.08	-2.06	.18	-1.88	.20	7.70	1.37	8.54	1.84	30.95	2.15	87,62
59	48.79	5.15		-3.11	.20	77	.39	4.85	.49	4.27	.65	22.33			M TES				TANCE	
50	50.49	5.13		-6.82	.14	-1.56	,25	.78	.22	-2,14	.32	97	.63	31.19	REMO	VED FR	OM TES	T - L	W IR	L
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								Technica	al Committ	ee No. 40	chnical Con Electroni Publicati	с Сопроп				I	Sheet No.	111	;/C/2	
									Humidi	TEST RE	PORT Componen	uta								
	Test Lab	oratory:					NG CO.		•						(	Country:	U.S	Α.		
	Type of C	omponent:	PA	PER C	APACIT	ORS (V	IAX DIP	PED)				Ç.	<del>pecilence</del>	4-Tengos	t of Loss	Angley B	oletenee( )	Insuletion	Resisten	co •
	Initial		lst me		2nd m		3rd m		4th n		5th m		6th m		7th m		8th m		9th m	
	date 5/2		date:5/3		date: 6/4								date: 7/				date: 8/6		date: 8/	
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	^	B	A %	В	AZ	В	A %	В	A %		A g	В	1 %	В	Ag	B	^	В	A &	В
16	50		-32.00		-30.00		36.00		-96.20		-99.61		-99.97		-92.99					
7	29		103.44		13.79		3.44		-34.48		-13.79		73.80		-89.65		-98.34		-99.83	
8	31		-16.12		-29.03		-6.45		-16.12		-32.25		-35.48		-32.25		-77.42		-93.87	
9	45		- 2.22		-44.44		13.33		-48.88		-28.89		40.00		-95,33		-99.92		-99.99	ļ_,
50	43	· ·	-13.95		-81.39		99,85		-99.96		-99,99				20 00		<del>                                     </del>			ļ. <u> </u>
51.	35		17.14		-28. <u>57</u>		31.42		-83.43		-95,71		-99.80		-99,98		· ·		<b></b> _	
52	24.5		6.12		-24.49		63,26		-99.10		-99.86		-99,97			<del></del>	<b> </b>		<b> </b>	
53	27.5		53.64		-60.00	<u> </u>	94.54		-99,65		-99,92		99,98		1				<del>   </del>	
54.	29	ļ	- 5.17		-10.34	:	24.14		95.68		-99.09		99,89		-99,97		ļ		<del></del>	
55	41		4.88		-29,27		65.85		-99,22		-99.88		99,97		-99,99		<del>  </del>			
56	26		-11.54		-80.77	<u> </u>	99.69		-99.97				<del>  </del>				ļ			<u> </u>
57			-35.44		-96.83		99.96		-99,90				05 53		00.34		l		100.00	<b>]</b>
58			-19,15		-40.42		57,44		-68.08		-84.04		95.53		-99.76		-99,94		-99,99	1
<u>59</u>			0		-14.28		95,71		-99.88		-99.98		00 00				<del>  </del>		<b> </b>	<del> </del>
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			Tech	nternational Electrote nical Committee No. o Forking-group: Revision	0 Riectronic Compon			Sheet No. 1110	1/C/ I
			.•	TEST R	PORT	·			
Test Laboratory:	UNUTED	CTATEC TEC	TING CO., II	Humidity test fo	or Components		Country:	U.S.A.	
Type of Component				QUAR COATING	\			Resistance; Inculation	- Panistones 4
Initial meas	lat meas	2nd meas	3rd meas	4th meas	5th meas	6th mees	7th meas	8th mees	9th meas
date 5/25/56	date:5/28/56	date: 6/1/56						6 date: 8/3/56	data: 8/17/56
T: 22°C RH: 56 %	T:22 °C RH: 65.	т:29% кн62	7. T:29C RH:50	7. T:29°C RH:467			T: 24°C RH487	т27 ℃ кн:38%	т.24 % вн59
A B	A g B	A g B	A % B	Ag B	A of B	A g B	Ag B	A g B	A g B
46507980	1.12	1.16	1.31	1.55	1.75	1.81	1.93	1,90	2,11
47 62840	40	1.56	4.06	5,90	6.29	6.89	7.87	8.09	9.60
48478670	.41	.41	.42	.65	.71	.67	.86	.86	1.10
49479210	. 75	.95	1.40	1.99	2.23	2.34	2.45	2,62	2.84
50471000	.52	.50	.73	99	1.10	1.17	1,22	1.21	1.46
5151444C	,41	.65	1.92	2.76	3.05	3.22	3,49	3.67	3,94
52 506430	1,03	1.03	1.09	1.32	1.60	1.75	1.77	1.74	2.04
53476330	.63	.62	.91	1.30	1.47	1.66	1.78	1.78	2.00
54 477780	.97	1,13	1,64	2.37	2.55	2.85	2.91	3.02	3,21
55491320	.59	,65	.89	1.28	1.42	1,63	1.70	1.83	1,94
56511110	.56	.56	.95	1.51	1.56	1,72	1.90	2.32	2,23
57511840 58494340	.76	,74	1.22	1.70	1.75	1.27	1.28	2.15	2.43
59495340	.65	1.07	1.29	97	1.08		2.00	1.31	1.49
60468260	.90	.73	.52	1,93	1.37	1.44	1.11	1.85	1,24
50400200	.55	<del>  •44</del>	1.52	<del>  '''                                 </del>		<del> -'•'</del> /	<del>  '•'' </del>	1,00	1.24
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										ty test for		nts								
	Test Lab	watory:	UNIT	ED STA	TES TE	STING	CO. IN	IC.								Country:	U.S.A			
	Type of C	omponent:					L WITH		5)				Capacitance	+ Tanger	t of Loss	Angle;			- Rooiste	nou-
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	date:5/8		date;			18/56	1		date;		date;		date:		date:		date:		data:	
ì	7: 23°c	RH:39 %	T: °C				T: °C I		T: °C		т: °С	RH:	% T: ℃	RH: %	r: °c	RH: %	т: °С	RH: %	т: °С	RH:
	<b>A</b>	В	A .	В	A %	в %	<b>A</b>	В	٨	В	٨	В	٨	В	^ ^	В	<b>A</b>	B		В
61	43,77	4,10			.59	9.7														
62	42,32	4.20			.63	0						1				L				
63	43.32	4.30			.66	-4.6														
64	42.50				.63	5.1														
	48,55				49	-5.4						L								
66	48,63	3,40			49_	2.9				L										
67	48,87	3,39			.47	12.5														
		3,58		ļ	-57	-2.6														<b></b>
	48,50				.33	5,8					ļ <u>.</u>	<del> </del>		<u> </u>		<u> </u>				1
70	48.57	3.50		<u> </u>	-53_	2.8								<u> </u>						<u> </u>
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IBC 40 (WG) 1: Appendix IV

International Electrotechnical Commission Sheet No. 1b/J/1 Technical Committee No. 40 Electronic Components Working-group: Revision Publication No. 68 TEST REPORT **Humidity test for Components** Test Laboratory: UNITED STATES TESTING CO. INC. Country: UNITED STATES Type of Component: PAPER CAPACITOR (METAL WITH NEOPRENE) Capacitance + Tangent of Loss Angle; Designate; Insulation Initial meas 1st meas 2nd meas 3rd mess 4th meas 5th mess 7th meas 8th mess date: 5/19/56 date: date:5/9/56 date: date: date: date: date: date: 9C RH: % T: 249C RH: 58% T: 9C RH: T: 21°C RH: 51 % T: 7. T: °C RH: 7. T: °C RH: 7. T: °C RH: 7. T: °C RH: OC RH: T: °CRH: 7. T: A 61 47.25 4.15 0.5% 0.7% 50.83 4.15 0.5 1.2 0.8 45.93 4.05 0.8 0.8 67 46,68 3.90 0.2 68 46.91 3.95 0.3 2.5 69 46.33 3.95 0.9 3.9 70 54 32 4 20 0.5 0.2 ; Unit: 1F X 103 ; Unit: X 10-3 T = ambient temperature in laboratory. A = CAPACITANCE TAN OF LOSS ANGLE Delete if not applicable. RH= relative humidity in laborators.

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									Humid	TEST RE		nts									
-	est Labo	ratory:	UNIT	ED STA	TES TE	STING	COMPAN	IY, IN	C.							Country:	UNITI	ED STA	TES	_	
-	Type of Coc. ponent: CERAMIC CAPACITOR (PAINTED) Cepacitance + Tangent of Loss /										Angle; 5	ookstenee.	- Besistance *								
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51	98.8				1.8	0.25												<u> </u>			
52	98.6				0.1	0.03				L		<b></b>			l					$\perp$	
53	100.6				0.1	0.11						ļ	ļ	L	<u> </u>		1			1	
4	99.0	0.08			0,2	0.51					<u> </u>	<b></b>	<b></b>	ļ	<b></b>	ļ	<b></b>	ļ	<del> </del>	1_	
5	97.6	0.19		ļ	0,2	0.32				<del> </del> -			ļ			<u> </u>					
6	98.4	0,09	ļ	ļ	0,5	0.42			<u> </u>		ļ	<b></b>	<u> </u>	ļ	ļ	<u> </u>	ļ			1	
7	100.4	0.14		L	0,7	0.44			-	<u> </u>	ļ		ļ		<b> </b>	<del> </del>		<del> </del>		1_	
8	100.5	0.15	<u> </u>		0,2	0.19				<del></del>	ļ	<del>  </del>	<u> </u>	ļ	<b>!</b>	↓		<del> </del>	↓		
9	099.1	0.07		ļ	0,1	0.04			<b></b>			<u> </u>			<del> </del>	<del> </del>		ļ	<del>  </del>	╀	
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7	Test Labo	ratory:			ATES T				NC.									D STAT			
1	Type of C	omponent	CERA	MIC C	APACIT	OR (PA	INTED	)					epositene	+ Farge	t of Loop	Angles II	********	Resistance *			
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52	750		-97.2		33.0						<u> </u>										
53	1000		-93.8		-40.0			<u> </u>										L			
54	1000		-99.2		-60.0										\						
55	1000		-98.5		-30.0																
_	1000		-99.3		-30.0																
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	Initial	meas	įst m		2nd n	ne a s	3rd m		4th r	ne a s	5th s	De a s	6th s	× 4.5	7th :	Deas	8th :	DC & S		D6#6
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61	093.8	0.17			0.1	0.09	<del> </del>		<b></b>		f	$\vdash$	<del>                                     </del>		1.	<del> </del>	<del> </del>	<del> </del>	1	<del> </del>
62	103.9				Ö	0.08														
63	197.2	0,18			0.8	0.05		ļ			<b> </b>		_		ļ		ļ		<b></b>	<b></b>
64		0,20			0,2	0.06		ļ. <u></u>			<u> </u>		<del>                                     </del>	<b></b>	<b> </b>	ļ	<del> </del>	<del> </del>	<b>├</b>	<del> </del>
	192.9			<del> </del>	0.5	0.18		<b> </b> -	}	<del> </del>		<b></b>	-	-		<del> </del>	1	╁──	<del> </del>	<del> </del>
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69	094.2	0.17			0.1	0.10														
70		0.18			0.2	0.08										<u> </u>				1
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IEC 40 (IFG) I: Appendix IV

International Electrotechnical Commission Technical Committee No. 40 Electronic Components Working-group: Revision Publication No. 68

	Test Labo	eratory:	UNIT	ED ST	ATES T	ESTING	CO.,	INC.								Country:	UNITE	D STAT	ES	
	Type of C	omponent	CERA						ING)			16	apositane	+ Tengo	at of Loop	Angles Be	olotanoo	Insulation	Resiste	nce *
	Initial	me as	lst m	eas	2nd tt	***	3rd n			4th meas 5th meas			6th 1	-ces	7th :	Deas	Sth :		ÇELÎS	Dees
	date: 5/7	7756	date: 5/	0/56	dete: 5/	18/56	date:		date:		date:		date:		date:		date:		dete:	
1	т:21%	RH:50 %	τ25 °C :	кн:59%	т:23℃	RH 6 7.	T: °C	RH: %	T: °C	RH: %	r: °C	RH: 9	r: °c	RH: %	1: °C	RH: %	ıı: GC	RH: %	T: °C	RH;
- 1	Α	В	A %	В	A 8	В	^	В	^	В	^	В	^	B	A	В	A	В	A	В
51	500		-40.0		-40.0					1					1					
52	400		-25.0		-37.5								7			1				$\vdash$
53	300		-33.3		-33.3		<del>                                     </del>			<b></b>				<del>                                     </del>	<del>                                     </del>					<del>                                     </del>
54	500		-50.0		-50.0		<del>                                     </del>				<del> </del>		<del> </del>	1	· ·			1	<b></b>	<del>                                     </del>
55	500		-40.0		-40.0		<del>                                     </del>			<del> </del>	·	-	<del> </del>	<del> </del>		<u> </u>				<del> </del>
56	500		-62.0		-20.0		· ·	<del> </del>			<del> </del>			<del>                                     </del>	<del>                                     </del>			<del> </del>	-	<del> </del>
67	500		-50.0		-40.0		<del></del>			<del>                                     </del>	<del>                                     </del>		+	<del>                                     </del>	1	<del> </del>		<del>                                     </del>		<del> </del>
58			-55.0		-25.0		<del></del>			<del> </del>		<del> </del>	1	<del> </del>	<del>                                     </del>			<del> </del>	<del> </del>	<del> </del>
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IEC 40 (WG) 1: Appendix IV International Electrotechnical Commission Sheet No. |||C/J/| Technical Committee No. 40 Electronic Components Working-group: Revision Publication No. 68 TEST REPORT Humidity test for Compone ats Test Laboratory: Country: U.S.A. UNITED STATES TESTING CO. INC. Capacitance + Tangent of Loss Angle; Besistences-Type of Component: PAPER CAPACITOR, WAX DIPPED Initial meas 1st meas 2nd meas · 3rd meas 4th meas 5th meas 6th meas 7th meas 8th mees 9th mess date:5/7/56 date: date: 5/18/56 date: date: date: date: deto: date: dete: T:22°C RH:5 7. T: 9c RH: % T:239c RH 53% T: OC RH: °C RH: °C RH: OC RH: % C KH: °C RH: OC RH: B % 61 50.70 5.05 53 18,2 62 50.48 5.60 61 12.5 63 53.50 5.18 16 12.0 64 49.95 5.50 -.18 8.2 65 48 65 5 58 1.13 7.5 74 14.1 67 49 84 5 25 6.9 54 14.3 70 50 21 5 50 7.3 Unit: PF X 10-3 A = CAPACITANCE B = TAN OF LOSS ANGLE T = ambient temperature in laboratory. · Delete if not applicable. RH= relative humidity in laboratory.

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IEC 40 (WG) 1: Appendix IV

International Electrotechnical Commission Technical Committee No. 40 Electronic Components Working-group: Revision Publication No. 68

TEST REPORT

Sheet No. |||d/J/|

				<b>Humidity test for Components</b>	
est Laboratory:	UNITED STAT	ES TESTING C	OMPANY, INC	•	
Comments	DECISTOD (	CDACKED CADE	ON LACHED	COATING	1

Country: UNITED STATES Te t of Lose Angles Resistance: Inculation Besistance (CRACKEL CARBON, LAQUER COATING) Initial meas 1st meas 2nd meas 3rd meas 5th meas 4th meas 6th meas 7th mees date: 5/3/56 date: 5/15/56 date: dete: date: date: T23 CRI61 7 T:24 CRH557 T: CRH: 7 T: OC RH: % T: OC RH: ℃ RH: OC RH: % 9C RH: % T: 9C RH: % °C RH: T: A % A В A B 61 499,47 0.8 62480.37 0.9 63487,57 1.1 64 491 19 1.2 11.2 66 495,97 0.8 67,474,05 0.5 68473,68 1.1 69486.66 1.1 A = RESISTANCE : Unit: OHMS T = ambient temperature in isborstory. · Delete if not applicable. RH= relative humidity in laboratory.

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